e Mining Immal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1745.—Vol. XXXIX.

JAM. 89, 1869

LONDON, SATURDAY, JANUARY 30, 1869.

STAMPED ... SIXPENCE, UNSTAMPED .. FIVEPENCE

M. R. JAMES CROFTS, STOCK AND SHAREBROKER,
No. 1, FINCH LANE, CORNHILL.

(Established 1842.)

HOLDERS of mining shares difficult of sale in the open market may find purchasers for the same through Mr. CROFTS' agency. Also parties requiring advice how to act in the disposal or abandonment of doubtful mining stocks may profitably avail of Mr. CROFTS' long experience on the market in all cases of doubt or difficulty, legal or otherwise.

Mr. CROFTS has a few remaining shares for sale in a Tin Mine, which will pay upwards of Eighty Per CENT. The shares are 7s. 6d. cach. Applications addressed to Mr. CROFTS will be answered with full particulars.

MR. JOHN BUMPUS, 44, THREADNEEDLE STREET,
has FOR SALE the following shares, free of commission:
50 Anglo-Brazili, 138. 3d 100 Frontino, 8s. 3d.
60 Australian United 15 Frank Mills, 43%.
15 Great Laxey, 419%.
22 Chiverton, £2 3s. 9d.
25 Chiverton, £2 3s. 9d.
26 Chontales, £1%.
26 Don Pedro, £4 5s. 6d.
27 Mining Assoc., 128 6d
28 Mining Assoc., 128 6d
29 Brypostic, 29s. 8d.
20 Morrison Research, 28s.
20 East Lovel, £9%.
20 No. Treskerby, 18s. 6d.
20 E. Greaville, £3 3 9d
20 E. Greaville, £3 3 9d
30 Prince of Wales, 23s 3
20 WK. Chiverton, £23%.
30 Prince of Wales, 23s 3
20 WK. Stondolphin, 23s 6
30 Prince of Wales, 23s 3
20 WK. Stondolphin, 23s 6
30 Prince of Wales, 23s 3
20 WK. Stondolphin, 23s 6
30 Prince of Wales, 23s 3
20 WK. Stondolphin, 23s 6
30 Prince of Wales, 23s 3
20 WK. Stondolphin, 23s 6
30 WK. Chiverton, £28%.
30 Prince of Wales, 23s 3
20 WK. Stondolphin, 23s 6
30 Prince of Wales, 23s 3
20 WK. Stondolphin, 23s 6
30 WK. Chiverton, £28%.

. W I L L I A M W A R D, STOCK AND SHAREDBALER, No. 29, THREADNEEDLE STREET, LONDON, E.C.

ESSRS. WILSON, WARD, AND CO., STOCK AND SHAREDEALERS, 16, UNION COURT, OLD BROAD STREET, LONDON, E.C.

MR. THOMAS SPARGO, STOCK AND SHAREDEALER, 224 & 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.O.

JOHN RISLEY, (SWORN) STOCK AND SHAREBROKER, 48, THREADNEEDLE STREET, LONDON, E.C. Bankers: London and Westminster, Lothbury. OFFICE OF THE

WHEAL MARY FLORENCE MINING COMPANY (LIMITED), 74, OLD BROAD STREET, LONDON.

M. R. JAMES HUME, STOCK AND SHAREDEALER,
74, OLD BROAD STREET, LONDON, E.C.
WHEAL MARY FLORENCE.—Particulars of this mine may be had on application to Mr. HUME.
Mr. HUME'S "Circular" for January is now ready. Price 6d. free by post.
Buying and selling orders executed at the closest margins.

Bankers: The London Joint-Stock Bank.

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Fifteen years' experience in Cornwall and London.
BUYER of Bosecan shares for cash. Seliers please state lowest price. Alse
BUSINESS in every other description of mining and other stocks at close market

MR. E. J. BARTLETT, STOCK AND SHAREDEALER,
No. 20, GREAT ST. HELEN'S, LONDON, E.C., has SPECIAL BUSINESS
in West Godolphin, Summer Hill, North Pool, South Condurrow, South Merllyn,
New Lovell, Great South Chiverton, South Darren, and North Levant.
Holders of Stock difficult of sale in the open market may find purchasers on
application to the above.

application to the above.

*** Mr. E. J. Bartlett recommends the immediate purchase of West Godol-phin and South Merilyn shares.

M. B. JOHN MOSS, STOCK AND SHAREDEALER,
ST. MICHAEL'S CHAMBERS, 42, CORNHILL, E.C.
and Taquaril Gold shares.
NORTH TRESKERBY.—This mine is looking better than at any time during the past two years, and is likely soon to be in the Dividend List again; closing price, 22s. 6d. to 25s.

Bankers: City Bank Street Law Stree

Bankers : City Bank, Finch-lane, E.C.

Established Fifteen Years.

M E S S R S.

WARD AND JACKMAN,

STOCK AND SHAREDRALERS.

Messrs. WARD and JACKMAN have daily information from the principal seats of mining, which is at the service of those who may honour them with their Jan. 29.

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MR. C. A. POWELL, STOCK AND SHAREDEALER, No. 1, PINNER'S COURT, OLD BROAD STREET, LONDON, E.C. Business as BUYER or SELLER of shares in all the Leading Dividend and Progressive Mine

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WITHIN, LONDON, E.C., DEALS in all STOCKS AND SHARES,
SPECIAL BUSINESS in the following Gold Mines:
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Port Phillip.
General Brazilian.
Bankers: The Alliance Bank.

MATTHEW GREENE, STOCK AND SHAREDEALER, 1, ST. MICHAEL'S HOUSE, CORNHILL, LONDON, E.C. TAMAR VALLEY SILVER-LEAD.—I still recommend the purchase of these shares. The mine is progressing fast towards a highly remunerative state. See reports in this day's Journal.

BARTLETT AND CHAPMAN'S "INVESTMENT CIRCULAR

Chapman's "Investment Circular And Financial Recorp"

(Published on the first Wednesday in each month)

Comprises—A Comprehensive Review of the Stock, Share, and Money Markets; an Enumeration and Comparison of the Whole Circle of Investments; and Valuable Suggestions for Purchase or Sale.

**Sent free on application.

No. 2, Bucklersbury, London, E.C.

M. WILLIAM MARLBOROUGH, 1, GREAT ST. HELEN'S, BISHOPSGATE STREET, LONDON, E.C. (Established 14 years), ha

FOR SALE the FOLLOWING STRARES, in enterprices:
50 Brynpostig, 27s. 6d.
50 Chontaies, £12s. 6d.
15 Chiverton, £1%.
50 Great Laxey, £20.
50 Great No. Laxey, £25.
50 Great N

20 Gonamena, £1 3s. 6d. 50 Prince of Wales, 21s 9 1 Wheal Seton, £84.

M. R. GEORGE BUDGE, STOCK AND SHAREDEALER, No. 4, ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Established 20 Years), is a SELLER at net prices of:—

10 Maes-y-Safn, £22; 100 Maudlin, 36s. 9d.; 35 Rose and Chiverton United; 10 Cwm Erida, £13; 3 Minera; 20 Linares, £2 14s. 9d.; 5 West Chiverton; 10 Cwm Daren; 10 New Lovell, £3½; 10 East Grenville, £3½; 25 Penhalls; 25 North Downs, 14s.; 56 Great South Chiverton; 10 Wheal Grenville, 33s.; 70 Tamar Valley; 30 South Condurrow, 17s.; 2 Wheal Scton, £84; 100 Lovell Consols. And has SPECIAL BUSINESS as a BUYER or SELLER of Penhalls, South Caradon, West Chiverton, North Jane, Great South Chiverton, Colquite and Callington, and East New Wheal Lovell.

Mr. Budge recommends the purchase of Penhalls. He called the attention of the public to this mine some time since, as well as other progressive mines now in the Dividend List. Not having any immediate personal interest in the success of any mine, he is enabled to give unbiassed advice as to the purchase of shares most desirable for investment.

NNUAL REVIEW OF CORNISH AND DEVON MINES PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE LIST—SYNOPSIS OF CORNISH AND DEVON MINES," of Friday, Jan. 29, No. 517 Vol. XI., price 6d. each copy, forwarded on application, contains the CONTINUATION of his ANNUAL REVIEW, with ADVICE as to PURCHASE of SALE OF SHARES.

ORNISHAND FOREIGN MINES.

PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE LIST—SYNOPSIS OF CORNISH AND DEVON MINES," of Friday, Jan. 29, No. 517, Vol. XI., Pice 6d, each copy, forwarded on application, contains information on the following mines:—
West Caradon.
Wheal Trelawny.
Wheal Buller.
Wheal Grentville,
East Wheal Grentville,
East Wheal Grentville,
East Wheal Grentville,
Great Western.
Wheal Grentville,
Great Western.
West Chiverton.
West Chiverton.
West Great Work.
With a Tabular Statement of Mining Dividends paid during the year 1868.

INVESTMENT OR SPECULATION.—A SELECTED LIST OF RAILWAYS, BANKS, MINES, COLONIAL SECURITIES, FOREIGN GOVERNMENT BONDS, &c., forwarded to bona fide investors on application, in addition to the high rate of interest many of the above are paying, there is now every probability of a great rise in market value.

PETER WATSON, STOCK AND SHAREDEALER,
79, OLD BROAD STREET, LONDON
(three doors only from Hercules-passage, entrance to the Stock Exchange).
Twenty-four years' experience.
(Two in Cornwall and Twenty-two in London.)
Bankers: The Alliance Bank, and the Union Bank of London.
References given and required (when necessary) in all the principal towns of the United Kingdom.

THE LONDON DAILY RECORD—STOCK AND SHARE 50 clock. It contains the latest prices of railways, banks, mines, foreign stocks and bonds, financial, insurance, and miscellaneous shares, remarks on the daily rise and fall in prices, with advice as to purchase and sales. Annual subscription, £11s.; by post, £25s.; monthly subscription—by post, 4s.; single copy, 1d.; by post, £2d. post, 2d. Peter Watson, Stock and Sharedealer, 79, Old Broad-street, London.

M R. E D W A R D C O O K E,
STOCK AND MINING SHAREDEALER, 76, OLD BROAD STREET
(and Mining Exchange), LONDON, E.C.
Mr. COOKE still advises the purchase of Great Western, Great Wheal Vor,
East New Lovell, New Wheal Lovell, Prince of Wales, and Frank Mills shares,
feeling confident of a considerable advance in price.
BUYER of Frank Mills, New Wheal Lovell, and West Great Work shares, at
market prices.

Price-list sent free on application.
Bankers: Alliance Bank.

R . W . H . C U E L L,

SPECIAL BUSINESS—
East Caradon.
West Chiverton.
West Frances.

Henrietta.
West Tolgus.

MR. WILLIAM SEWARD, STOCK AND MINING SHARE BROKER, 19, THROGMORTON STREET, LONDON, E.C. Every description of shares BOUGHT and SOLD at the best market prices.

R. T. ROSEWARNE, 81, OLD BROAD STREET,

LONDON, E.C.

T. R. has BUSINESS in the following mines, at close market prices:—
Bedford United.
Chiverton.
Great Wheal Vor.
Chiverton Moor.
East Caradon.
East Caradon.
East Caradon.
East Caradon.
East Caradon.
East Garn Bres.
Prince of Wales.
Fedn-an-dres.
East Lovell.
South Crotty.
AN Offfer WANTED for the following shares:—30 West Drake Walls, 20
North Chiverton, 25 Brynpostig, 100 Redmoor.
Parties interested in mining, and who wish to be guided right, should consult T. R., he not only having been a practical miner, but has been in the share market for thirteen years. Those who have hitherto consulted me have done well, and I never saw a better opportunity than the present to make money if properly employed. Shares can be exchanged to great advantage.
Money advanced to any extent on good mining shares.
Office hours Ten to Four.
Baukers: Bank of England.

MR. THOMAS THOMPSON, MINING OFFICES,
BOYALTON.—The steady increase in the price of this causing a great demand
for shares in legitimate tin mines, and which, there can be little doubt, will become generally valuable. Investors, however, should be careful how they place
money in deep and expensive mines, which can only pay profits with tin at high
prices. They should rather seek an investment in those mines which, with extensive reserves, can pay profits with tin at its lowest price. Among the best of
this latter class I place Royalton, and recommend the purchase of the shares
wherever they may be met with. At their present price they are intrinsically
very cheap indeed.

M. R. J. R. PIKE has FOR SALE the undermentioned SHARES
at the following net prices:—
20 Cook's Kitchen.
50 Prince of Wales, £1 3s
4 Cwm Erfin, £14.
1 East Pool, £365.
1 South Caradon.
15 Great Wor, £10 17s 6d
20 Tincroft, £16 17s, 6d.
10 Marke Valley, £9 6s 3d
3 W. Chiverton, £53%.
4 Minera.
50 W. Godolphin, 17s. 3d
7 Arties may avail themselves of the above medium for the disposal of share gratuitously, unless sales are effected, when a commission of 1 per cent, will be charged.

grauntously, unless sales and charged.
All shares for insertion should reach Mr. PIKE'S office on or before Friday in All states for insertions about the search week.

TIN MINES.—The price of black tin having advanced since the commencement of 1888 from £12 to £15 per ton, many mines can now be worked to advantage that formerly were unprofitable. Great care, however, should be exercised in their selection for investment. Mr. PIKE can recommend two tin mines for their present excellent position and dividends during 1869. All particulars on application. Established in Cornwall and London 20 years.

3, Crown Chambers, Threadneedle-street, London, E.C.

MINING STOCK AND SHARE OFFICES, 25, CROSBY HALL CHAMBERS, BISHOPSGATE STREET WITHIN, E.C.

ARMAN, TRIPP, AND CO. ACT EXCLUSIVELY AS AGENTS FOR PRINCIPALS, securing to clients a due and full return for their investments at a moderate commission.

A long residence in the Mining Districts, and an experience of over twenty years in the London and Provincial Markets, enable them with confidence to advise as to safe and profitable transactions.

The earliest telegraphic information received from their appointed local agents.

eral first-class Dividend-paying Mining, Banking, and Miscellaneous

NVESTMENT, LOAN, AND BANK AGENCY.

Established 1839.

PUBLIC SECURITIES of every description Bought and Sold upon advanageous terms. Facilities for payment, and every reliable information afforded

o Investors. Facilities for paythens, and every features and Shares LOANS granted, for one year or any shorter period, on Stocks and Shares laying a market value.

Five per cent. interest allowed upon DEPOSITS of all amounts.

Money and Finance Agency Business generally undertaken.

RICHARD TAYLOR AND COMPANY.

No. 12, Clement's-lane, Lombard-street, London, E.C.

MR. T. P. THOMAS, MINERAL SURVEYOR AND MINING AGENT, 77, OLD BROAD STREET, LONDON.
Mr. THOMAS, having had twenty-six years' experience in British Mining is PREPARED to INSPECT and REFORT upon MINERAL PROPERTY.
To capitalista desirous of investing in legitimate mining enterprise, and to owners of property containing mineral veins, Mr. THOMAS offers his services.
Mining Securities Bought and Sold on the usual terms.

M R. C H A R L E S T H O M A S, MINING AGENT, GENERAL SHARRDEALER, AND AUCTIONEER, 3, GREAT ST. HELEN'S, LONDON, E.C.

Third Edition, price One Shilling; post-free, fourteen stamps, MINING FIELDS OF THE WEST:

A PRACTICAL EXPOSITION OF THE

PRINCIPAL MINES and MINING DISTRICTS OF CORNWALL and DEVON.

PRINCIPAL MINES AND MINING DISTRICTS OF CORNWALL AND DEVON.

At No. 3, Great St. Helen's, London, E.C.

MR. JOHN GIBBS (late LANE and GIBBS), 2, ROYAL
EXCHANGE, LONDON, E.C.
MARKE VALLEY, EAST CARADON, WEST ROSE DOWN, and CARN CAMBORNE
MINES.—Although difficult to effect transactions in these mines at times on the
Mining Market the advertiser is always in a position amongst his correspondents to buy and sell at close prices, and does not hesitate to recommend
a purchase in each and all of the above for a great advance in price and large
dividends.
GREAT LAXEY and SOUTH DARREN. SPECIAL BUSINESS in these mines.
Bankers: London and County Bank.

ESTABLISHED SEVENTEEN YEARS.

GRANVILLE SHARP AND CO.,

SHAREDEALERS, 32, POULTRY, LONDON, E.C.
Bankers: London and Westminster Bank, Lothbury, London, E.C.
RELIABLE INFORMATION GIVEN TO SHAREHOLDERS & INVESTORS.

RELIABLE INFORMATION GIVEN TO SHAREHOLDERS & INVESTORS,
N.B.—It is quite impossible to "OFFER" a list of SHARES for SALE at
FIXED PRICES, as market prices vary daily.
Stocks and Shares BOUGHT and SOLD at the closest market prices nets.
SPECIAL BUSINESS in the following Mines at the closest market prices:—
Chiverton Moor.
Delocath.
Devon Great Consols.
East Wheal Lovell.
East Wheal Lovell.
East Pool.
East Grenville.
Great Laxey.
Great South Chiverton.
Great Western Mines.
Great Wostern Mines.
WANTED TO PURCHASE, the following shares for cash:—

Great Western Mines. Rosewall Hill & Ransom Wheal Agar.

WANTED TO PURCHASE, the following shares for cash:
20 TRUMPET CONS., £17 200 EAST CHIVERTON. 5 WEST WHEAL SETON
50 NANGILES. 150 EAST TRUMPET. 1500 NORTH JANE.
10 WHEAL SETON. 20 WHEAL TRELAWNY. 15 WHEAL MARY ANN.
300 GREAT CARADON. 10 WHEAL JANE. 100 EAST CARADON.
Sellers will please state number and lowest price for cash, all calls paid.

Established Twelve Years.—Twenty-four Years' Experience. MR. F. W. MANSELL, 44, THREADNEEDLE STREET, LONDON, E.C., recommends the IMMEDIATE PURCHASE of the fol-

INT LONDON, E.C., recommends the labeled to labeled to lowing shares:—

East Caradon.

Drake Walls.

New Wheal Lovell.

Wheal Mary Ann.

East CARADON, having advanced 200 per cent. since I first drew attention to them, offers a good opportunity of securing a large profit to those disposed to realise; at the same time, my opinion is that they will see a much higher price.

TAMAR VALLEY.—Rich lead is now being returned from this mine, which will leave a profit to the shareholders. Shares should be purchased.

WANTED—The offer of 10 or 20 Wheal Friendship shares.

Bankers: London Joint Stock Bank.

MR. HENRY MANSELLL,

44, THREADNEEDLE STREET, LONDON, E.C.
EAST CARADON.—These shares have risen in price since I first advised the
purchase nearly £7 per share, and will go better.

PRINCE OF WALES.—Parties holding these shares should take my advice,

nd sell.

New Lovell, South Condurrow, and Tamar Valleys are safe for a rise shortly.

Thirteen Years' Experience.

Bankers: London Joint-Stöck Bank.

References exchanged.

M ESSRS. A. STUART AND CO., STOCK AND SHAREDEALERS, 93, BISHOPSGATE STREET WITHIN, LONDON, E.C., have FOR SALE, free of commission, for cash or account:—15 Great Laxey, £194; 15 Lovell Consols, 99, 9d.; 10 Don Pedro, £44; 25 North Treskerby, 17s. 6d.; 25 Prince of Wales, 24s.; 125 Taquaril, 6s. 3d. prem.; 1 East Lovell, £9½ cum div.; 450 West Godlophin, 16s. 9d.; 20 Royalton, 29s. 3d.; 10 West Cornwall Granite, £3½; 40 Chontaics, £1½; 10 New Lovell, £3½; 5 West Chiverton, £55½; 25 Anglo-Brazilian, 10s.; 15 Cornwall Hematite, 9s.; 10 Pednandrea, £5½.

Prices not quoted may be secured at market prices, cash or account.

MR G. D. SANDY, STOCK AND SHAREDEALER,
No. 48, THREADNEEDLE STREET, LONDON, E.C.
50 So. Condurrow, 17s. 6
50 Tamar Valley.
5 W. Chiverton, £5:54
50 Chiverton, £1:19s.
50 Chiverton, £1:19s.
50 Chiverton, £1:19s.
50 W. Great Work, £3.
50 Chiverton, £1:19s.
51 Prince of Wales, 22s.
52 Frank Mills, £3:18s.

MR. S. GOMPERS, JUN., STOCK AND SHAREDEALER, 3, CROWN COURT, THREADNEEDLE STREET, LONDON, E.C.

MR. J. B. REYNOLDS, STOCK AND SHAREDEALER, ETHELBURGA HOUSE, BISHOPSGATE STREET WITHIN, E.C. Established Eleven Years.
Bankers: City Bank, London, E.C. INTENDING INVESTORS.—The "FINANCIAL GAZETTE,"

NTENDING INVESTORS.—THE PRANCIAL GAZBITE, to published by Mr. Y. CHRISTIAN, should be consulted with a VIEW to the SAFE EMPLOYMENT of CAPITAL. It contains Original Articles, a Review of the Money Markets, and a selection of investments paying 10 to 17 per cent., and such information as is necessary to guide intending investors.

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INVESTORS IN MINING COMPANIES,—Mr. CHRISTIAN recommends the immediate PURCHASE of NORTH LEVANT SHARES, whether bought to hold as an investment or to seil again. It is a splendid property, and dividends are close at hand. Although Mr. CHRISTIAN is the only person publicly recommending the purchase of shares in this sett, he does so with the greatest of confidence, feeling assured that those who buy now will do well.

C O R N I S H T I N M I N E S. —
Before investing in ROYALTON, get full information about EAST Defore investing in ROYALTON, get full information about E.
ROYALTON, from
T. A. MUNDY AND CO., 38, BISHOPSGATE STREET WITHIN; or W. HANNAM AND CO., 449, STRAND.

TIN, TIN, TIN.—TO INVESTORS AND CAPITALISTS.—
The Advertiser is in a position to NAME TWO TIN MINES, the shares of which are almost certain to ADVANCE ONE HUNDRED PER CENT. in value during the present year. This is a splendid opportunity for those looking for a safe invegment of capital. Terms, 5 per cent. on the profits realised during present year. during present year.
Address, "O. Z.," Mining Journal Office, 26, Fleet-street, London.

CHONTALES GOLD COMPANY.—FULL PARTICULARS of the DIFFERENT CLASSES of SHARES can be obtained on application to Mr. J. H. Murchison, No. 8, Austinfriars, E.C.

M. R. EDWARD BREWIS, STOCK AND SHAREDEALER,
No. 34, OLD BROAD STREET, LONDON, E.C., has BUSINESS, for
cash or account, in all the various Mining Securities at best market prices.
SPECIAL BUSINESS in General Brazilian, Chontales, Don Pedro, Lovell
Consols, Taquaril, West Chiverton, West Godolphin, and Glan Alus.
Bankers: The Alliance Bank, London, E.C.

Oniginal Connespondence.

MINERAL WEALTH OF NORTH WALES. [FROM OUR OWN CORRESPONDENT.]

Accounts from time to time received from North Wales afford rather scanty information as to the extensive mining operations taking place in that part of the Principality, although just now capital appears to be finding its way there to a much larger extent than for several years past. Not only are there some considerable lead mines being opened out, but several large collieries are in course of sinking, all of which give promise of turning out successful, and so finding profitable and permanent employment for many hundreds of workmen. For the purpose of ensuring the most reliable information with regard to the two important branches of trade named, we were induced during the past week to visit the localities in which they are the most extensively carried out. For that purpose, on leaving Chester, we chose Hawarden as our first resting place, and where, some 30 yards from the principal entrance to the Castle, we were comfortably, and even luxuriously, quartered at the Glynne Arms Hotel, past which we every morning observed the Prime Minister proceed on foot to the morning service at the parish church, courteously saluting those he met with. Mr. Gladstone, as well as his brother-in-law, Sir Stephen Glynne, have a considerable interest in the mining operations going on in the neighbourhood, the latter being the lessor of a large tract of coal now being worked under the Accounts from time to time received from North Wales afford or of a large tract of coal now being worked under the

brother-in-law, Sir Stephen Grynne, have a considerable interest in the mining operations going on in the neighbourhood, the latter being the lessor of a large tract of coal now being worked under the Hawarden estate.

In the town of Hawarden itself there is a rather extensive iron establishment, belonging to Messrs. Ratcliff and Sons, who have a large trade in mining machinery, boilers, &c., and who recently sent an engine to the Silkstone Main Colliery, now being sunk near to Barnsley, and several others into Prussia. The firm enjoys a high reputation for boilers also, and supplies them to the mines in all parts of the coal and lead districts, being now engaged on some 16 too nones for the Broughton Colliery, near Wrexham. The largest colliery in the district, however, is that about two miles from the town, known as the Aston Hall, belonging to a limited company: the leading members are resident in Yorkshire; the Chairman being Mr. Meek, of Yorkshire; Mr. J. Crossley, Halifax, Mr. Fenton, Huddersfield, and Mr. Allott, Sheffield, being directors. At the present time there are three pits at work, and a fourth one, to the Flintshire main seam, is being sunk by Mr. Bradley, and will be completed in about two months, so that the out-put of coal will be very large. With regard to the management of the pits, it may be stated that Mr. Jeffcock, of Sheffield, is the consulting engineer, Mr. Grattoner, of Darlington, general manager, and Mr. Young, under viewer. In addition to the extensive colliery works, the company have a vast brick-making and pipe and tile establishment, the whole of the buildings covering several acres of ground, there being a capital seam of fire-clay, about 5 feet below what is termed the Yard coal. The clay is of excellent quality, not being affected in colour, when burnt, by the weather. Two of the kilns at the time of our visit containing thousands of pipes, from 6 to 18 inches in diameter. The concern, so far, gives every indication of turning out highly successful, and when in full operatio

sinking two new shafts, under the superintendence of Mr. Gilroy, having the great advantage of direct railway communication in all directions, as well as being close to the River Dee at a point where vessels of considerable tonnage can load. Not far from the colliery is the Coimber Works, where a rather large business is done in the extracting of tar from coal. Near to Bagilt, on the main line to Holyhead, the coal seam was tapped some time since, close to the River Dee, but the water got into the shaft, and sinking for the time was abandoned. Now, however, an immense shaft is being sunk, quite close to the Dee, into which most of the stuff taken out is deposited. The diameter of the shaft, we were informed, was no less than 20 feet, exclusive of 3 feet of walling set in cement, so that the colliery will be one of the largest in the kingdom when completed; but, from the nature of the stuff to be removed, a good deal of it being sand, requiring great care in taking out, is likely to occupy some considerable time. Mr. Jackson, we believe, is one of the principals in this vast concern, of which Mr. Woodhouse, of Derby, is the engineer, and Mr. Johnson the resident. The latter gentleman stated it as not unlikely that a seam of coal, 15 feet thick, would be reached at a depth of something like 250 yards. At the Coppa Collery, where some new pits were sunk last year, the Cannel one has been stopped, owing to an influx of water, and for the drawing off of which a new tank is being made. In the neighbourhood of Buckley new engines and boilers have just been put down at Little Mountain Colliery, and work is now progressing in a satisfactory manner; whilst in the same locality the Areaed Company are engaged. rain Colliery, and work is now progressing in a satisfactory manner; whilst in the same locality the Argoed Company are engaged in sinking two shafts to the Main coal. About a couple of miles or so from the last-named locality the Messrs. Thompson have just sunk one shaft to the Four-foot seam, which is the finest quality of coal in the district, and are now sinking a second one.

A very fair amount of business is done by the collieries in Denbighting a second one are proposed to the progression of the second one.

A very fair amount of business is done by the collieries in Denbighshire, and some new concerns are being opened out, amongst which may be noticed the Morton Hall Colliery Company, of Wigan, who are engaged in sinking two new shafts, and putting down new and powerful machinery and boilers, manufactured by Messrs. Radcliff and sons. Near to Mold there are a large number of pits, in which a very valuable seam of Cannel coal is raised, amongst the most prominent of which may be named that of the Welsh Cannel and Mineral Oil Company, whose place is of a truly model character, including the most complete machinery, with substantial and pleasing buildings. The Bromfield Hall Colliery Company is doing a very fair business, a good deal of the coal, which is of good quality, finding its way to Birkenhead.

About half-an-hour's drive from Mold is Leeswood, where there are several large collieries, in which the Cannel coal is obtained, and

About narran-nours drive from moid is Leeswood, where there are several large collieries, in which the Cannel coal is obtained, and some of which is very rich indeed in oil, some of the specimens of what is termed the "curly," which were shown to us, burning like a dry stick, the oil itself exuding out during combustion. At one of the collieries which we visited we were informed that as much as the collieries which we visited we were informed that as much as 80,000*l*, had been expended on the works, owing in some measure to some "faults" having been encountered. At present the company is raising about 200 tons daily of common coal and 100 tons of Cannel, but which it is expected will be largely increased in the course of two or three weeks. The Cannel realises from 17s. 6d. to 20s. per ton, and is principally taken for the purpose of extracting the oil, of which upwards of 80 gallons, we were informed by Mr. Young, was extracted from a ton of the coal. The Leeswood Main Coal Company is now doing a moderate trade, the men working back, as the present take, it is expected, will be exhausted in the course of a the present take, it is expected, will be exhausted in the course of a year or two. At Coed Talon there is not so much doing, as it is said the Main coal seam is nearly done, operations being now principally confined to the getting of the "brassy" led. At Altamy, it is said, further sinking has been given up, although the brassey coal was sunk to, but as it was not equal to expectations, Messrs. Meek and M'Culloch have abandoned it. The Rake Colliery, once a rather flourishing concern, but which, owing to some dispute, has been standing for two or three years, it is said is again likely to be opened out, and will doubtless pay those who take it in hand.

Having thus cone through a brief protice of what is doing at the

out, and will doubtless pay those who take it in hand.

Having thus gone through a brief notice of what is doing at the different colliery districts in North Wales, it may be stated that the total quantity of coal raised last year in Flintshire, Deubigshire, and Anglesea was close upon 2,500,000 tons, of which Denbigh produced about two-thirds. A good deal of the steam coal is sent to Birkenhead by railway for exportation, in consequence of which advantage was recently taken by the loaders, or coal-heavers as they are termed locally, to ask for increased prices for their work. This might haveled to serious consequences, so far as regarded the trade, had not the Mersey Dock and Harbour Board taken the matter in hand, and by putting down "tips" given increased facilities for the loading, ensuring a great saving in time, and dispensing with a good deal of labour. This affords another instance of the folly of trikes, and the injury inflicted on those who promote and take part n them. A good deal of the Cannel coal raised is bought for the purpose of extracting the oil which it contains, and which in its crude state, we were informed, was worth from 1s, to 1s, 4d. per gallon,

There are several large oil works in various parts of the country, and a very considerable business is being done at them, the one at Mold,

There are several large oil works in various parts of the country, and a very considerable business is being done at them, the one at Mold, belonging to Mr. Marsden, being very active just now.

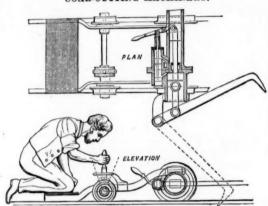
Before concluding our notice of the collieries of North Wales, the great increase which has taken place in the out-put of coal in that part of the Principality during the last year or two is worthy of special remark. In 1866 Flint and Denbigh, with two or three collieries which are worked in Anglesea, produced 2,082,000 tons, whilst in 1867 they raised 2,371,250 tons. Flintshire alone increased its production from 570,000 tons in 1866 885,000 tons in 1867—an increase of more then 50 ner cent, in one year!

in 1867 they raised 2,371,250 tons. Flintshire alone increased its production from 570,000 tons in 1866 to 885,000 tons in 1867—an increase of more then 50 per cent. in one year!

There is very little pig-iron manufactured in North Wales, there not being on an average more than four furnaces in blast, so that the entire quantity produced in 1867 was only 32,843 tons, and for the make of which ironstone had to be imported from other districts, seeing that the whole produce of the four or five mines being worked was only 44,082 tons. There are, however, some very fair sized iron works, amongst which, in addition to those given, may be named the Sandieroft Foundry and Engine Works, close to the River Dee, and where the unfortunate steamer, the Royal Charter, was built, and launched with great difficulty. There are also some vast chemical works, foremost amongst which are those of Muspratt, Huntley, and Co., where some 400 or 500 men are employed.

Having so far noticed some of the minerals of North Wales, more particularly the coal and iron, we propose in our next to give some information relative to the lead mines, many of which are known, not only for their yield of the heavier metal, but for their richness in silver. So far it will be seen that the mineral wealth of North Wales is being largely developed, and that where the prospect of a fair return for money is seen there are plenty of capitalists ready to embark in a really legitimate mining business.

COAL-CUTTING MACHINERY.



Sir,—I beg to hand you sketch of plan and elevation of one of my Coal-Cutting Machines, which, after ten years' close attention, I have succeeded in devising—an effective and practicable coal-cutting machine, adapted for any thickness of seam, from 12 in. upwards. It is quite simple, and has but very little machinery to get out of order. The cylinders are of two different sizes, joined together end to end, the outer ends being open. The larger cylinder serves to give the blow, and the smaller one to give the return stroke; the two cylinders also form the axes for the running wheels. The open end of that larger cylinder is towards the face of the coal, on which is fixed a hoop and bearer, to carry the root end of the cutter, which can be made to move and cut at any angle; the hind wheels are only to carry the attendant when propelling the machine forward when at work. In all other respects the machine is self-acting. The same power being given to drive back the pick as to give the blow has always been a great evil as well as a waste of power. This is completely remedied by the above arrangement.

J. ROTHERY, Colliery Viewer, (And one of the inventors of the machine known as the West Ardsley Machine of 1861).

Waterloo Main Colliery, Leeds, Jan. 20.

COLLIERY MANAGEMENT-BRATTICE CLOTH.

SIR,—I noticed in last week's Journal a letter from Mr. Ellis Lever to Mr. Peter Higson, the Government Inspector of Mines, in reference to Brattice Cloth. Will you permit me to remark that, in my opinion, the sooner the use of brattice cloth, either in long lengths or short lengths, is done away with the better, both for the workmen and the employers? Mr. Higsonsays "there is not a great deal of skill required in ventilating a coal mine." I would here observe that, in my opinion, there is considerable difficulty in ventilating a coal mine efficiently where there is so much brattice cloth used, and in such long lengths; in narrow work I look upon it as a great mistake. One of the Special Rules says the underviewers must see that all air-courses are made and maintained not less than a certain size, according to the thickness of the seam being worked, and the same rule also gives power to contract the airways to about one-third the size it has before ordered should be made and maintained. For instance, I will suppose the thickness of the seam to be 4 ft.; the airways are to be made not less than 16 square feet sectional area, then the brattice cloth to be from 18 in. to 20 in. or even 2 ft. from the side—and 6 ft. is even wider than the nature of the roof will allow in some cases of narrow work. The result is, if a fiery seam and giving off much gas, the SIR,—I noticed in last week's Journal a letter from Mr. Ellis Lever work. The result is, if a flery seam and giving off much gas, the brattice cloth is put nearer the side, and, of course, still more reduces the room for the air. I would, therefore, suggest that efficient ventilation depends not, as Mr. Lever observes, "very much on the quality and make of brattice cloth," but on the use of the cloth being reduced to a minimum, and compressed air supplied direct from the surface in pipes withold to the place to be ventilated, independent of the orin pipes suitable to the place to be ventilated, independent of the or dinary means of ventilation. This would remove all danger from places requiring bratticing; and the cost of gas-pipe, would, I believe, not be more than the brattice cloth, for it does not last long -Leeds, Jan. 27.

CRADDOCK'S HOT-AIR ENGINE.

SIR,—In addition to what appeared in the Journal in June and July, 1847, and in my letter of Jan. 16, 1869, with your permission, the public is here informed what I have done in relation to Hot-Air Engines. For this purpose see the *Mining Journal* of 1853, p. 411, and there it will be seen I have shown how the mechanical structures invented and described by me in my last letter can, by employment of heat and air, be used as far as air will admit, in the same way as I use steam expansively. There it is seen that steam generated in my boiler is made to heat the air after compression, on its way to the power-giving or working cylinder, or cylinders. For the more ready comprehension of how the air is so heated, see the "Engineer" of Dec. 25, 1857, p. 475, and what is there shown as a superheater for steam, suppose it to represent my steam chest with those tubes for the air to pass through, and the steam sur-rounding them, and you have all the practical ideas requisite to enable rounding them, and you have all the practical ideas requisite to enable anyone to construct a hot-air engine upon my principle, as set forth in the Mining Journal of 1853, p. 411. Whoever will take the trouble of considering how I present the air as compressed, heated, expanded, and used will see my hot-air engine is original, practical, and exhaustive of the advantages inherent in given quantities of heat and air. The points in favour of such hot-air engines are the absence of a condenser and the non-passing of the steam from the boiler, but only the transference of the heat from the steam to the air, whilst the use of my regulating damper adjusts the temperature of the steam to that which practice, under the varied circumstances given, demands. For portthe Mining Journal of 1853, p. 411. Whoever will take the trouble, of considering how I present the air as compressed, heated, expanded, and used will see my hot-air engine is original, practical, and exhaustive of the advantages inherentin given quantities of heat and air. The points in favour of such hot-air engines are the absence of a condenser and the non-passing of the steam from the boiler, but only the transference of the heat from the steam to the air, whilst the use of my regulating damper adjusts the temperature of the steam to that which practice, under the varied circumstances given, demands. For portable-engines of small power such hot-air engines are those, if any can, that will in practice compete with steam. The heating by the agency of steam is not a necessity, as instead of the hot air going through the tubes, after compression, it may surround the tubes, in place of the steam, or pass through annular spaces formed by slightly larger tubes surrounding those seen. In either of these cases the products of gas, or of any of the burning fluids, might

be passed through the central tubes, as in the locomotive, or such be passed through the central tubes, as in the locomotive, or such products can be passed over the exterior, or annular spaces, and the compressed air pass through the interior tubes; if these latter modes be adopted, a light external casing would prevent the useless dissipation of heat, and on these products of combustion being made to pass in the opposite direction to the compressed air, as they were cooled they would act upon the less heated compressed air, and effect the most beneficial transfer of heat. In these ways we get the most perfect hot-air engine it is possible to make. Thos. CRADDOCK.

44. Friston-street, Birmingham, Jan. 25.
P.S.—In my last letter, in the Supplement to the Journal of Jan. 16, at page 55, bottom of second paragraph in first column, for 1857 read 1847.

IMPROVEMENTS IN ORE DRESSING.

IMPROVEMENTS IN ORE DRESSING.

Sir,—There is, perhaps, nothing in which improvement is more necessary in connection with the mines of Cornwall and Devon, than in ore dressing, for it is a lamentable fact that the surface managers of many of our principal mines know less of what is doing beyond the boundary of their own setts than the adventurers in mines, who are, of course, supposed to know nothing of the working part of mining operations. I find among the patents recently applied for, that Mr. William Rule, jun., of Dolcoath Mine, tin-dresser, obtained provisional protection for an improved machine or apparatus for dressing metallic ores, which he describes as a table, circular in form, and with a roughened surface, and having an inclination towards its centre, which is cut out, is made to revolve slowly, and during its revolution the metallic ore and the earthy and other foreign matters from which it has to be separated are allowed to fall in a semi-fluid state upon the periphery of this table, and owing to the inclination of the table towards the centre, the earthy and other foreign matters gradually descend through the hole in the centre, leaving the heavy metallic ore, which is afterwards washed off as it reaches a certain point in the revolution of the table into a separate receptacle by a strong stream of water being allowed to flow over that part; water may also be applied throughout, or for any portion of the revolution, to accelerate the disintegration of the earthy and other foreign matters, and cause their speedier deposition in the centre.

I do not for a moment doubt that a machine of this kind would give very good results in use, but I am at a loss to understand the advantage which it would possess in comparison with the concave

I do not for a moment doubt that a machine of this kind would give very good results in use, but I am at a loss to understand the advantage which it would possess in comparison with the concave buddle, and, as the latter has been in use for many years, I should presume that it would be better understood by the workmen than the present machine, in which the brushes are dispensed with. I have watched the operation of a large number of Cornish ore-dressing machines, and it appears to me that the waste of water is enormous, at least ten times as much being used as is absolutely necessary. I think, too, that with Mr. Rule's machine the waste would far exceed that with the concave-buddle, so that if he were to turn his attention in that direction he might find it desirable. Under any circumstances, I should be glad to learn, through the medium of the Journal, at what mines, and with what result, his machine has been applied. I should be glad to learn, through the medium of the solution, what mines, and with what result, his machine has been applied.

BUDDLER.

SEPARATION OF COPPER FROM SILVER.

SIR,—The vast importance which would be secured to mine adventurers by the introduction of an efficient and economic process venturers by the introduction of an efficient and economic process for the extraction of copper by the wet way has frequently been pointed out in the *Mining Journal*, yet the poor ores of Cornwall are still comparatively worthless to the miners, since they contribute but very little towards paying the general cost of the mine. Now, so far as poor ores containing nothing but copper are concerned, I think it is very doubtful whether the value of the metal will repay the trouble and expense of extracting it, but when the ores are slightly argentiferous there can be no doubt that they may be profitably treated. There was an invention recently introduced by Mr. Richard Pearce, of Swansea, to which I think far too little attention has been

argentiferous there can be no doubt that they may be profitably treated. There was an invention recently introduced by Mr. Richard Pearce, of Swansea, to which I think far too little attention has been given. It was intended more especially for the purification of silver which had been precipitated by copper from its sulphate, nitrate, or chloride, but might, probably, be applied with equal success when the silver is precipitated with copper—at least it is worth a fair trial. The impure silver, according to the invention of Mr. R. Pearce, is placed on a filter in a boiler, and water is added, together with a little sulphuric acid, the quantity of the latter necessarily varying with the amount of copper, as will be well understood. Steam, with air mingled therewith, is then admitted by means of an injecting apparatus, violent ebullition ensues, and the copper becomes oxidised, and is dissolved by the sulphuric acid. Should the ebullition become too violent it may be checked by admitting less air. After being boiled in this way for about two hours the solution of sulphate of copper is drawn off, the silver stirred so as to make it a little more granular, a fresh supply of water (which has been slightly acidulated with sulphuric acid) is added, and the mixture is then boiled for about one hour. The solution is afterwards drawn off, and the silver carefully washed with clean water. The silver, when dry, has only to be melted in crucibles for fine silver, refining in the usual way, by means of lead, being quite unnecessary. In the event of a little silver passing into solution towards the close of the operation of boiling, plates of copper may be introduced into the boiler for a few minutes, and the air excluded. Any traces of silver that may have passed into solution will thus he preminted. cluded. Any traces of silver that may have passed into solution will thus be precipitated.

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thus be precipitated.

At present whatever gold and silver the copper ores of Cornwall may contain goes to the smelter without any account being taken of it, consequently it is entirely lost to the miners; whilst from the fact that the smelter has no convenient means of extracting any metal other than copper, even the smelter derives no advantage. With the aid, however, of Mr. Pearce's invention, I have no doubt that even very small quantities of silver, and no matter whether the ore were rich or poor in copper, might be profitably extracted. The invention appears to me to be one which is in every way worthy of consideration both to mine adventurers and to smelters. METALLURGIST Builth, Jan. 27. Builth, Jan. 27.

UTILISATION OF WASTE PRODUCTS FROM TREATING

GOLD AND SILVER ORES.

GOLD AND SILVER ORES.

SIR,—Although I am quite willing to admit that the treatment of gold and silver ores has not generally been attended with success in this country, I think that so many of your readers are interested in foreign gold and silver mines that a brief account of the invention of Mr. A. L. Henry, of Boston, U.S., who is known even in England as a metallurgical chemist of high reputation, will not be uninteresting, and more especially as the attention of English capitalists is justnow directed to gold and silver mining enterprise in the Western States of America, to the treatment of the ores from which Mr. Henry's invention appears to be particularly applicable; its great recommendation being that not only is the gold and silver extracted, but the products resulting from the treatment are turned to pecuniarly advantage by obtaining them in a marketable state. He proposes to mix the powdered gold or silver ore with a proportionate quantity of natural or artificial fluoride of calcium, or of any fluorine salt or acid, and to expose this mixture to the combined action of steam acid, and to expose this mixture to the combined action of steam and carbonic acid. A decomposition of the mineral results and a milky solution is obtained, from which the mechanically suspended gold is abstracted by passing the liquid through a bath or other suitable menstrum, and the refuse, the mineral solution, is

used as a cementing liquid or base for paint.

The loss of the precious metal in extracting it from the ore is a source of continual complaint, and it is well known that unless the

ton. He then adds to the mixture about I gallon of water for every pound of the said mixture; the said boiler is so arranged that a pressure of about 60 lbs. can be kept up for about two or three hours, the escape being so regulated that the vapour can be condensed in a cistern of water. To facilitate this action the boiler itself may be set over a fire, or kept heated by a steam-jacket. When the boiler is closed, and the valve fixed, as above stated, he introduces into and among the agitated mixture steam and carbonic acid, until the whole is dissolved into an opalescent milky liquid. The carbonic acid can be produced by any of the known processes, and either injected alone by its own pressure or by a Giffard's injector introduced with the steam. The quantity of carbonic acid should be about one quarter of the steam injected. After the solution is complete the steam and carbonic acid are shut off, and the whole is allowed to cool down to about 200° Fahr. He then passes the liquid through a properly constructed amalgamating bath, where every particle of suspended metal is taken up by the mercury, and can then be obtained in the usual way. With regard to the liquid from which the gold has been extracted, Mr. Henry proposes that it should either be sold as a new article of commerce, or applied at once to the various purposes for which it is adapted. When mixed with lime, oxides of iron, zinc, or lead, it gives an excellent fire and waterproof paint for houses, bridges, railroad depôts, warehouses, and ships; it can be used for the impregnation of railroad sleepers and timber for various purposes, as it prevents and arrests decay; with sand and clay it makes an excellent cement for the manufacture of water, fire, and weather-proof materials, applicable for roofs and other purposes; combined with paper pulp, sawdust, and other similar materials, it can be pressed into moulds, and facilitate their manufacture into many useful articles; mixed with sand and clay, lime, soapstone, cinder from iron, copper, or other fur

quartz, sand, and slightly compressed white flint, an imitation marble, suitable for statuary or other ornamental purposes, can be made.

Theoretically this invention appears to possess all the elements of success, but what I should like to ascertain is, whether it has been practically tested on a commercial scale, and what has been the result. One of the prettiest inventions which I recollect was that of the Electric Power, Light, and Colour Company, the object of which was to employ electricity as a motive power, and for the production of the electric light; and to use such a battery that the wasting of the metal should produce brilliant metallic colours of marketable value. In all the experiments that were made the results were most the metal should produce brilliant metallic colours of marketable value. In all the experiments that were made the results were most satisfactory—the light was brilliant, and the colours produced in the battery, especially the Prussian blue, were superb; yet, when it was tried on the commercial scale, and without the immediate superintendence of the inventor, it did not succeed; in fact, it appeared to require that amount of precision which, although commonly practised in the laboratory, is seldom attained by the comparatively unskilled workmen in the factory. It is for this reason, and not from any misglving as to the practicability, scientifically speaking, of Mr. Henry's process, that I ask the question whether the invention has been applied commercially?—Jan. 26. — F. C. L.

MINING IN CALIFORNIA—SPURIOUS REPORTS

MINING IN CALIFORNIA—SPURIOUS REPORTS.

SIR,—Observing a letter in the Mining Journal, signed Joseph Organ, from Humboldt county, Nevada, I wrote him in reference to it, and found by his reply, which I enclose to you, that his name had been forged for the purpose of enhancing the apparent value, for market operations, then pending. You know me and my handwriting, and I would advise your readers to be careful about communications of a rosy colour, emanating from the State of Nevada, as they are generally written for such purposes. The good mines of Nevada are few, and very far apart, and those are worked by the Americans. I have intertrailed the country for 21 months, having ridden some thougands of miles in many directions, examined hundreds of so-called few, and very far apart, and those are worked by the Americans. I have intertrailed the country for 21 months, having ridden some thousands of miles in many directions, examined hundreds of so-called ledges without success; and I am justified in saying that 10 square miles about the Carn Brea Hill, in Cornwall, have produced more mineral profits than all this State will do from its mountain veins, in 80,000 square miles of country, during the present generation. The region is composed of an excess of igneous and volcanic rocks, which extend from the Sierra Nevada to the Rocky Mountains. The minerals are found in the small patches of uplifted secondary strata, and in the less frequent prominences of primitive rock. This paucity of mineral is extraordinary; and as the mountains are washed clean to the rock, appears more palpably certain. The mountains are generally somewhat parallel, running in northerly trendings, as very elongated pyramids, about 20 miles asunder, like islands in a desert flat. I think it very probable that these flats are of a secondary formation, and contain the better defined mineral veins, which are so deeply covered with debris from the mountains that they cannot be examined. The White Pine district, which is now producing superlatively rich chloride of silver, in pockets, and creating much excitement here, is an illustration of the former, and the Austin Mountain of the latter formation. I have not seen the White Pine district. The Austin Mountain is, in my opinion, the best-defined and largest mining field in this State. Idaho and Arizona territories are opening favourably, as several good mines have been found with comparatively little 'prospection. California contains an immense area of talcose clay-slate, which has been upheaved by the primitive Sierra Nevada, forming favourable declivities for mining the rich quartz veins that are being favourable declivities for mining the rich quartz veins that are being favourable declivities for mining the rich quartz veins that are being spection. California contains an immense area of talcose clay-slate, which has been upheaved by the primitive Sierra Nevada, forming favourable declivities for mining the rich quartz veins that are being but partially worked, though they are eminently enticing. M. E. in Francisco, Dec. 23.

NOVA SCOTIAN GOLD MINES.

NOVA SCOTIAN GOLD MINES.

SIR,—My last promised some details of the so-called "unproclaimed" districts. These are tracts where gold has been discovered, but which have not been recognised by proclamation. The principal districts of this class are named below:—

ECUM SECUM is on the south-eastern coast, and was first opened during the past summer, but developments have not progressed far enough to prove the district. The advantages claimed for it are—the number of lodes visible, no depth of soil to encounter, plenty of timber, and a good water-power.

FIFTEEN MILE STREAM received considerable attention last year from provessional explorers, and about 3000 areas have been secured under lease and loence. Two mills are contracted for, and a road is being constructed, partly at Government cost, and partly at the expense of the miners. A large quantity of gold has been taken from boulders, but no lodes of any consequence have yet been opened. The district is well wooded, has a good stream passing through it, and it popular in its present undeveloped condition, it will be much more so in the coming summer, when a good road is completed, the want of which was alone the cause of no actual mining being commenced last year.

Musquodonont (Jennings).—This district has the reputation of showing more gold on the surface than any other in the province, but over a large extent the depth of soil is great, and the ground wet, which will render prospecting smill and expensive.

GAY's RIVER has been a candidate for public recognition for more than four years as a well situated and likely ground for profitable alluvial mining. The families of two farmers, who own the ground, have made a fair income by working in a rude way, and experienced traveliers who have visited the locality provounce it one quite worthy of extended operations. It is referred to at length in the report of Dr. T. Sterry-Hunton the Gold Region of Nova Sectia.

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rears as a well situated and likely ground for profitable alluvial mining. The families of two farmers, who own the ground, have made a fair income by working in a rude way, and experienced travellers who have visited the locality pronounce it one quite worthy of extended operations. It is referred to at length in the report of Dr. T. Sterry-Hunt on the Gold Region of Nova Scotia.

MINE MILLE RIVER is supposed to contain alluviums. Test millings of a few toms have given sufficiently encouraging results to warrant further search.

KILLAG.—A "rush" was created for this district last spring, but subsequent explorings failed to discover any lodes, although rich boulders abound in several places. About 1500 acres were secured under prospecting licences, but all abandoned in the course of three months. Depth and wetness of soil are the formulable obstacles to successful prospecting.

GOLD RIVER.—One would suppose an interest to attach to this district from its name alone. It was opened early in 1861, but leased principally by parties in the United States, who withdrew from mining as the war progressed. The district has, therefore, never been properly tested, but responsible parties are proparing now to explore it systematically so soon as the snow disappears from the ground. Mr. H. Poole, Dr. Dawson, Prof. Marsh, of Yale College, U.S., and Prof. How, of King's College, Nova Scotia, have noticed the district, and the latter obtained very good results from washing the sands of the river. The site is well adapted for supporting a large mining population, being near the sea, 7 miles from the town of Chester, and only 52 miles from Halifax, from which it is approached by one of the best roads in the province.

Implan Path is about 25 miles further westward than Gold River. Two young English gentlemen, associated with a practical Nova Scotian miner, commenced developing this district on their own resources. They have erected a stamps-mill, driven by water-power, and have incontestibly proved the district to be worth the at

cryolite, or any other suitable fluorine saltor acid, and when thoroughly mixed together he places the mixture in a strong boiler, which should have a stirrer, placed inside in such manner as to permit the agitation of the mass, in order to prevent the material from adhering to the botton. He then adds to the mixture about 1 gallon of water for every pound of the said mixture; the said boiler is so arranged that a pressure of about 60 lbs. can be kept up for about two or three hours, the escape being so regulated that the vapour can be condensed in a cisescape being so regulated that the vapour can be condensed in a cises and the property of the said mixture; the said boiler is so arranged that a pressure of about 60 lbs. can be kept up for about two or three hours, the escape being so regulated that the vapour can be condensed in a cise the property of the said mixture; the said boiler is so arranged that a pressure of about 60 lbs. can be kept up for about two or three hours, the said mixture; the said boiler is so arranged that a pressure of about 60 lbs. can be kept up for about two or three hours, the said boiler is so arranged that a pressure of about 60 lbs. Trained miners are soarce, and about May, or even the said mixture; the said boiler is so arranged that a pressure of about 60 lbs. Can be kept up for about two or three hours, the said boiler is so arranged that a pressure of about 60 lbs. Trained miners are soarce, and about May, or even the said boiler is so arranged that the vapour can be condensed in a cise that a pressure of a bout 51. It taken up under licence direct from the Government the cost for one year is not more than 5s. per area, though speculators will ask as much as 50/l. It taken up under licence direct from the Government the cost for one year is not more than 5s. per area, though speculators will ask as much as 50/l. It taken up under licence direct from the Government the cost for one year is not more than 5s. Per area, but if secured by lease to the cost for one year is not mor taining steady employment.

English capital could be invested here profitably, but not if wholly undeveloped tracts are paid for with more pounds per foot than they originally cost in dollars per acre. The Ophir, Palmerston, and Wellington Companies, all controlled in Boston, were the mainstay of last year's product, but have merely been successful through providents and accompanies and represents the successful through providents and accompanies. lent and economical management. ACADIENSIS.

Halifax, N.S., Jan. 14. GOLD RETURNS.—The following is an abstract of the mill-owners returns for the month of December from the different gold districts

Nova Scotia:—	SHERE	ROOL	KE.				
Mill.		artz	crus	hed.	Gol	d yle	eld.
Dominion	Tons	320	0	Ozs.	129	9	0*
Glencoe		168	0	*********	72	8	0
Wellington		207	14	********	232	16	12
Meridian		100	0		18	8	18
Chicago		50	5		1	0	0+
Union		8	10		3	5	0
Palmerston	*******	200	0	*******	41	10	01
Wentworth		194	16	**********	22	15	0
	WAV	ERLE	Y.				
Lake Major		111	0		39	11	14
Boston and N.S		146	0		52	2	0
	INDIAN	PAT	CH.				
Waddelow		27	0		5	13	22
.,	ECUM	SECU	M.				
Atlantic		44	0		10	19	4
	TAN	GIER					
Barton		37	16		24	8	0
	WINE H	ARBO	UR.				
Victoria		56	12	********	32	14	11
Machias		78	0		24	1	9
Orient		Not !	state	ed	7	19	7
El Dorado			0		49	5	6

The returns from Uniacke district are not all to hand, but the fol-

Owing data indicate its progress during the previous quarter:

— Company. Days' work. Quartz crushed. Gold yield.

Mt. Unlacke. 4074. Tons 499. Ozs. 345 6 0

West Lake§ 2207 630 136 9 0

Queen's 4297 512½ 239 9 0

Central 388 23 35 3 0

La Mothe. Not given 8 5 2 0

* From about 18 ft. of vein stuff.
† The exact figures of the returns, but evidently an error.
‡ From 18 ft. of vein stuff. This company has already paid for the mine and ant, and divided \$50,000 bonus among its shareholders, within two years. It

is owned in Boston.

§ This is the property that produced 234 ozs. from 13 tous in February last, and further bunches of rich ore are expected to be met in sinking, the greatest present depth being only 65 feet.

THE STANNARIES LAW AMENDMENT-No. II.

In my last week's letter on this subject I ventured to submit that one of the enormous evils connected with the management of costbook companies in Cornwall is, that merchant adventurers, or their nominees, are permitted to have seats at the board of management, and to vote supplies. To the question, How can this evil be obviated? I to vote supplies. To the question, How can this evil be obviated? I answer, by the cost-book articles providing that all contracts for supplies shall be submitted to public tender, and that no tender from an adventurer or from his firm shall be accepted. Such a provision would purge Cornish management from one of its chief blots, and go far to establish confidence in the direction of cost-book mining companies. The second evil has relation to Stannary Law, and is based on the fact that the head-quarters of the Stannary Court is pertinaciously kept at Truro. This is a very serious evil, and one that forms an insuperable bar to Cornish enterprise being favourably considered in London and in other large commercial centres situate at a distance

London and in other large commercial centres situate at a distance from that county. The Duchy has always been jealous—indeed, over jealous—of the privileges of its courts. Thus, it has always been its practice to except the rights of the Duchy and its courts from all repractice to except the rights of the Duchy and its courts from all recent Acts of Parliament having relation to mines, joint-stock companies, &c., which the requirements and progress of the age have from time to time demanded as necessary for the well being of the rest of the community. The Duchy rarely, and then with evident hesitation, adopts any reform; and, therefore, it is that the Stannary officers have been now requested to suggest to the committee what they think necessary for increasing the efficiency of their court. Hitherto the Duchy Court has strenuously and successfully resisted all pressure from without, it has pertinaciously refused all reforms, and it has, with a doggedness astonishing to those whose interests are prejudicially affected by its obstructiveness, insisted that adventurers in Stannary mines shall have Stannary justice at Stannary times and places or none at all. Such a course of conduct, if further persisted in, will lead to consequences most disastrous to the Duchy and its courts, and prepare for them a fate which will afford another illussisted in, will lead to consequences most disastrous to the Duchy and its courts, and prepare for them a fate which will afford another illustration of that canine sagacity which whilst grasping at a shadow lost the substance. In Cornwall the Stannary Courts and their principles may be much prized; there they are known and understood, and their officers respected. And I freely admit that in times long since passed such courts have been useful and efficient. But now, when large capitals are called for and subscribed out of Cornwall, it is unjust to insist that a stranger was in Aberden, shall submit his interacts. insist that a stranger—say, in Aberdeen—shall submit his interests to the adjudication of local courts situate in a county which probably he knows only from the fact that his losses and misfortunes have arisen within it.

have arisen within it.

The above expressed dissatisfaction at the inefficiency of these courts has not now been mooted for the first time. Certainly not; on the contrary, their inefficiency has been a bye-word during the last quarter of a century, and worse still, such inefficiency is not merely negative in its effects, but operates directly to prevent the flow of capital into Cornwall. Capitalists residing in distant parts of the empire readily acknowledge the metropolis as the locale of English justice, and they are familiar with its courts and judges. But what do they know of the Stannaries or its courts? Nothing—absolutely nothing. And, further, when the dark days of their adventure arrive, their legal advisers tell them that the Stannary Courts are located in Cornwall, that they are governed by a body of principles and statutes that it would take half a life time to master and understand, that they (the legal advisers) are ignorant of them, and that they (the capitalists) must confide their causes and their interests to strangers, to whom they are unknown, and who have neither sympathy for them

to whom they are unknown, and who have neither sympathy for them nor care for the results of their cases. The conclusions I draw from the above facts are, that in order as well to render the Stannary Courts efficient, as to prevent them from being any longer an impediment to the mining enterprise of Cornwall, it is necessary that the following, amongst other, reforms be forth-

with effected -That the Stannary Courts must relinquish their exclusive diction over mining concerns all other courts, whether metropolitan or otherwise, to have concurrent jurisdiction.

That the head-quarters of the Stannary Courts must be situate in the metropolis, with (if need be) branch registries at all convenient towns within Cornwall and Devon.

wenient towns within Cornwall and Devon.

—That all winding-up petitions, where one-half of the adventurers reside out of the Stannary jurisdiction, shall be heard in the metropolitan court, sitting either there or at some other place out of Cornwall and Devon.

—That the jurisdiction of the court be extended to all minerals, and the court for the court of the court for the court of the court for the court of the court for the court

mineral products, and their manufactures, such as coal, slate, clay, bricks, tiles, &c. lay, bricks, tiles, &c. -That the procedure of the court be very much simplified and

rendered more expeditious and less expensive.

—That reports, signed by the Vice-Warden, of the state and condition of all causes for the time being pending before his courts, be annually laid before Parliament.

It is expected that the Stannary officers will express their amaze It is expected that the Stannary officers will express their annaement at the above suggestions, and insist upon their impracticability; and they, being powerfully backed, may successfully withstand all attempts at radical reform. If so, I venture to prophecy that the next committee called to deliberate on the Stannary and Cost-book Systems will have to report that such systems have long ceased to be of public utility; and, therefore, that it is undesirable to attempt their revival.

I purpose in my next communication to examine the unlimited liability of cost-book companies.

Jan. 25.

MANAGEMENT OF MINING COMPANIES WITHIN THE STANNARIES.

STANNARIES.

SIR,—I have noticed with much interest the remarks of various correspondents on this important question. According to Mr. Polkinhorne's opinion, a mine manager and secretary should be a B.A., or some other dignified title; at all events, he should pass a primary examination in the mystery of being elected to that important office. I would wish to call Mr. Polkinhorne's attention as to how the most important offices of purser, manager, and secretary are generally filled in Cornwall by the local companies. At first starting a few individuals take a mining grant, spend their money, cut a rich lode; one is appointed purser, another manager, &c., according to their locus standi. Who has a greater claim? Take, for instance, South Caradon, West Caradon, Marke Valley, East Caradon, Mary Ann, Trelawny, East Basset, New Lovell, New East Lovell, with scores of others I might enumerate. My idea is that a mine manager and secretary should be one who is acquainted with underground operations, and able and willing to take his regular inspections to see how matters are progressing. A man of 30 years' experience must have an extraordinary opinion of the duties of a mine purser and secretary, that they should be brought within the criminal law. Surely there are honest and respectable men to be found in Devon and Cornwall to carry out a mining company in its full integrity as well as any commercial indertaking. I would wish to remark whilst noticing this subject, that possibly Mr. Polkinhorne's cost-book may be sufficiently explicit for those conversant with the he has and outs of mining accounts. I have not, however, had an opportunity to give my opinion, as I confess myself not an expert in mine accounts as generally presented. I should wish to see a statement of monthly cost for three months, cash and credit account, assets, and all liabilities in three separate statements, with each separate balance in summary of accounts.

Instead of fault finding as to "who" should have the loaves and fishes, in the shape of a

CHONTALES GOLD AND SILVER MINES.

CHONTALES GOLD AND SILVER MINES.

SIR,—The letter of "A Disappointed Shareholder," in last week's Journal, must greatly delight those ursine bipeds who are constantly looking out for what they can destroy, but the wisdom of the writer is not very easily seen. The report just issued by the directors, enclosing the report of Mr. Belt, shows that nothing whatever has occurred in relation to these mines but what is of every day occurrence in mining, and that patience and perseverance are the qualities to be called into exercise in developing mines where the management is houset, and the staff competent. It is not implied that Mr. Belt is other than an efficient officer, or that those under him are unfit for their work. It appears that there is good reason to believe that the ore is in the mines, and that the quality of the ore ground will improve as the development proceeds. As to the direction, it is transparently straightforward—indeed, so much so that it does not get credit from the "bears," at least for the frankness with which the information received is communicated to the shareholders. A little more tact would frequently fortify the share price in the market, when the simple bluntness with which the direction issues the information received from the mines has a prejudicial effect, which might be avoided. And I cannot but think that if, when Mr. Belt's return to England was announced, the same explanation of the reasons for it had been given as have been given now the shares would not have fallen so low as the present quotation. Such a proceeding on the part of the directors "leans to virtue's side," and need not be severely commented on, especially as they are more interested in the mines than in the daily price of shares.

Your correspondent is not the only "Disappointed Shareholder," but what does he gain by rushing into print with his disappointment? He onlystill further they may give to their shares a value which they can only prove by the development of the mines, and which cannot be done without capita -The letter of "A Disappointed Shareholder," in last week's

CHONTALES MINING COMPANY.

CHONTALES MINING COMPANY.

SIR,—The Chontales shareholders might greatly improve their position if they would adopt the following plan—instead of trying to issue 15,000l. worth of debentures at a high rate of interest, which will for some time be a considerable incubus on the company, to take powers to issue 15,000 more ordinary shares, (say) at 4l. discount, the same to be offered prorata to the shareholders. These would be all taken up at once, because they could be soil even now at a small premium on the amount of issue, and the effect on the shares generally would be a great rise, because the company would be in the position of having 15,000l, in hand, and returning a minimum amount of gold from the poorest class of ores, equal to 25,000l, a-year, and any improvement in the ores would place the company in a dividend state. Immediate action is important, that the valuable services of Mr. Beit may be resumed at once at the mine. I regret that illness will prevent my attending the meeting on Tuesday.

An Investor.

TO THE SHAREHOLDERS IN WHEAL EMMA AND BROOKWOOD MINES.

BROOK WOOD MINES.

GENTLEMEN,—In the Mining Journal of January 16 I addressed you, my coshareholders, on the subject of a flagrant misrepresentation, concerning an alleged "provisional agreement" for amalgamating these mines, which had been
made to the Wheal Emma shareholders, in a lithographed circular, dated the
7th inst., purporting to be issued and signed by Mr. W. G. Rogers, of 10, Queenstreet, Exeter, the solicitor of the Wheal Emma Company. The circular states
that "the TERMS PROPOSED AND PROVISIONALLY AGREED TO are that the two
mines shall be united, and a fresh issue be made of 6000 shares, of which 4500
shall be allotted rateably, in proportion to their present holdings, to the adventurers in Brookwood Mine, and the remaining 1500 to the shareholders in Wheal
Emma Mine."

street, Exeter, the solicitor of the Wheal Emma Company. The circular states that "the TEMMS PROFOSED AND PROVISIONALLY AGENED 70 are that the two that "the TEMMS PROFOSED AND PROVISIONALLY AGENED 70 are that the woman is allotted rateably, in proportion to their present holdings, to the adventurers in Brookwood Mine, and the remaining 1500 to the shareholders in Wheal Emma Mine."

Now, we shall presently see what justification Mr. W. G. Rogers had for circulating such a statement to the shareholders of the company, whose solicitor he is; and I think also we shall discover pretty nearly who the immaculate party is who "instructed" him, as he says, "to communicate with the shareholders." Please to bear in mind that the circular is dated Jan. 7, 1869. On the 6th inst. a special general meeting of the shareholders in Wheal Emma was held at the Railway Hotel, Totnes (Mr. Christopher Robins, now of Machynlleth, Montgomeryshire, but formerly of Buckfastielgh, in the chairy. There were also present, I believe, Mr. W. G. Rogers (the solicitor of the company), Mr. Codd (the purser), and one or two other porsons, but (excepting Mr. Christopher Robins) the names of the parties who were present are carefully suppressed in the printed proceedings of the meeting forwarded to the shareholders, as that 'terms' for amalgamation had been "PROFOSED" to the Brookwood Company, and "provisionally agreed to?" "Chrose by the Mr. B. But what do not proceedings say, but it carefully agreed to?" "Chrose by the Mr. B. But what do not proceedings say, but it is a state of the shareholders, as the shareholders, as the shareholders, and to take the necessary steps to bring the negative state of the whole of the shareholders in the Half Moon Hotel, Exeter, at 4 o'clock P.M., to give the parties an opportunity of settling the terms, and all necessary people be invited to attend. Resolved,—That this meeting be adjourned to the 2d day of February, to be held at the Half Moon Hotel, Exeter, at 4 o'clock P.M., to give the parties an opportunity of

purpose of legitimately working the mines, but of jobbing the intended new shares in London, Manchester, Liverpool, and other places. Not only mining men, but like readers generally of the Mining Journal, must have been astonished at seeing no explanation offered in the Mining Journal of Saturday last either by Mr. W. G. Rogers or his friend, Mr. Christopher Robins, respecting the attempted deception upon which I have ventured to address you.

16, Walbrook, London, E.C., Jan. 28.

Meetings of Public Companies.

AUSTRALIAN UNITED GOLD MINING COMPANY.

AUSTRALIAN UNITED GOLD MINING COMPANY.

An extraordinary general meeting of shareholders was held at the offices. Austinfriars, yesterday, for the purpose of amending the Atticles of Association, by adding the following clause thereto:—

"Any shareholder residing out of the United Kingdom shall be bound to give an address in England to which notices may be sent, and notices shall be deemed to be properly served by being sent through the post in a prepaid letter, addressed to such shareholder, at the address so given; and any shareholder not giving such address, as before mentioned, shall lose bis right of notice."

Major JELF SHARP in the chair.

Mr. J. H. MURCHISON (the London manager and secretary) read

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the notice convening the meeting.

The CHAIRMAN said the present alteration in the Articles of Asso

Mr. J. H. MURCHISON (the London manager and secretary) read the notice convening the meeting.

The CHAIRMAN said the present alteration in the Articles of Association was rendered necessary by the encouraging fact that the parties from whom the mines were purchased had resolved to take part of the purchase money in shares, instead of cash. He might take the present opportunity of stating that all the shares had been taken up, and also of submitting the last accounts received from Mr. R. L. M. Kitto, dated bec. 7, as follows:—

"You will be as glad to learn as I am to communicate the fact of the completion of the whole of our transfers at last, the particulars of which Messrs. Vaughan, Moule, and Leddon will advise you. In the event of their neglecting to write by the outgoing mail I may state briefly that Mr. Ellis returned from the interior about three weeks since, and executed a new lease of the 'Central' ground in favour of our company on Nov. 27, for a period of 2! years, at a royalty of 6 per cent. on the proceeds of the mine and a rental of 1s. per annum. At the Duke of Cornwall Mine the works are all progressing most favourably. I mentioned in my last that as soon as 1 had reached a depth of 140 feet in Dauke's shaft. I should commence to cross-cut for the lode. I found (as I expected soon to do) that on reaching a depth of 135 feet the little engine was unequal to cope with the increased quantity of water in the shaft. So I allowed 5 feet for a well, and cut a plat at 130 feet. This plat is finished, and the end of the cross-cut therefrom is 16 feet from the shaft. I discovered on Saturday that in consequence of the drainage the water has slightly decreased since the discontinuance of sinking, so that I have resumed sinking operations, and will continue the cross-cut as well. I will not stop sinking until I am positively compelled, although it is, perhaps, going a little beyond the power of the engine in doing so. Sharp's shaft is now 108 feet deep; the ground is slightly harder; no water of any moment

BRYNYSTWITH LEAD MINING COMPANY.

A general meeting of shareholders was held at the London Tavern on Monday, pursuant to the Companies Amendment Act of 1867,

BRYNYSTWITH LEAD MINING COMPANY.

A general meeting of shareholders was held at the London Tavern, on Monday, pursuant to the Companies Amendment Act of 1867, Mr. John Owen, J.P., in the chair.

The CHAIRMAN explained that the present was the adjournment of the first general meeting of the company, which, according to the provisions of the Act of Parliament, was rendered obligatory within a prescribed period after the incorporation of any joint-stock enterprise. As far as he was concerned, it was difficult to divine the object of the Legislature in rendering it imperative to hold a meeting so immediately after the inception of any, and the more particularly a mining, company, in which case, under unusually favourable circumstances, but little, if any, additional information could be submitted to the shareholders; but, notwithstanding the inscrutable aim of their legislators, the directors of this company had, so to speak, endeavoured to improve the occasion by obtaining several additional opinions of accredited and reliable authorities as to the value and prospects of the extensive mineral property, whose proved resources we man and a which is a submitted to the shareholders; but however, and the prospects of the extensive mineral property, whose proved resources when the prospects of the extensive mineral property, whose proved resources witch it would appear could not very well prove the occasion by obtaining several additional opinions of accredited and reliable and the several property of the prospect of the prospect of the prospect of the case of the property of the access additional opinions because they in any way doubted those upon whose recommendations the present company undertook the resumption of operations, for the mine itself was rapidly attesting their correctness, but because the present otherwise objecties meeting should have, at least, some end in view, that end being to satisfy the minds of shareholders—if, indeed, that were necessary—that they had associated themselves with a property and th

Mr. E. S. COMYN asked the nature of the rock, and the rate of driving the adit level?—Mr. Ross (Ross and Co.) managing director, explained that the rock was the ordinary clay-slate formation of Cardiganshire, and the rate of driving was about 3 fathoms per month. But while upon this point he might mention that, on behalf of this and other mines with which he was associated, he had been anxiously watching the result of the experiments in connection with the different boring-machines. So far as he had yet been able to ascertain no really satisfactory practical results had been attained by any: one, however, was now being tested at a slate quarry in North Wales, and if the results were satisfactory he would give further attention to the subject.

Mr. W. A. BROWN asked the means by which the dressed ore was removed from the wine?—Mr. Ross said there was a railway station within 1½ mile of the

tory he would give further attention to the subject.

Mr. W. A. BROWN asked the means by which the dressed ore was removed from the mine; — Mr. Ross said there was a railway station within 1½ mile of the mine, but a Bill had been passed authorising a railway which would run within 5 yards of their dressing-floors. He added that there was a well-constructed tramway through the deep adit, by which the "deads" were carried into the Ystwith. It was important to notice that there was nothing to pay for surface damage. — Mr. COMYN asked the present financial condition of the company? — Mr. Ross said that at the present time there were about 1000. In hand—that is, after providing for the purchase of the property, as stated in the prospectus. The present monthly expenditure was about 1001, but it would be shortly be increased, on account of the putting up of some additional machinery. There were several tributers now at work, but he hoped soon to see 100 at work, and the shareholders would agree with him in thinking that there was ground for the hope, when he mentioned that some old miners in the locality had stated that there was no reason why 200 tributers should not be employed when the pending operations shall have been completed.

Mr. Brown asked the price the ore realised? —Mr. Ross said that it was expected to realise 12, 10s, per ton. The carriage to Aberystwith would be about 10s, per ton, but they would be able to effect a considerable saving by conveying the ore to the Crosswood station.

Mr. COMYN asked if any computation had been made as to the quantity of ore that would be returned—that is, when two levels had been opened. He wished it to be distinctly understood that this was not his statement, and that it must be accepted with reserve, because it was obvious that the result must entirely

depend upon the degree of productiveness of the lode, and that nothing but de-

segment upon the degree of productiveness of the loss, and that botting did cape
to pay a very bandome divided upon the peak peagual.

The OLARIZAN, in rayly to a question, stated that fir Thomas Boundla, after
the pay reproting of the mine, extending to a distance of something like
to the pay a reproting of the mine, extending to a distance of something like
to mine, from the top of the mountain. He added that something like
to mine from the top of the mountain. He added that something like
to mine the product had been come the former proprision had been controlled to the come of the co

The resolution was put, and carried unanimously.

Mr. Ross acknowledged the vote.—The proceedings then terminated.

NORTH DOWNS MINING COMPANY.

The four-monthly general meeting of shareholders was held at the company's office, Crosby House, 95, Bishopsgate-street, on Monday,
Mr. H. MILFORD in the chair.

Mr. H. MILFORD in the chair.

Mr. W. WABD (the secretary) read the notice convening the meeting, and the minutes of the last, which were confirmed.

The statement of accounts for the four months ending December last showed a debit balance of 6581. 14s. 6d.

last showed a debit balance of 658%. 14s. 6d.

The agents' report was read, as follows:—

Jan. 23.—We beg to submit to you our report of this mine, which contains the prospects, the objects we have in view, and the mode we are pursuing to accomplish them. The 85 is driven west of King's shaft by six men; in this end the ground has recently undergone a considerable change for the better, and although we cannot value the lode, nor do we expect to until we approach the first shoot of ore, which will take us some little time, yet we are pleased with its appearance, the lode being large. We are driving the 60 on a portion of the lode which was standing south, and which is mentioned in our various reports as from the point of a horse; the lode lesi large, with a very good appearance. In the 60, on the south lode, there is also a better appearance, and, therefore, we look forward to a change in the lode when we reach the elvan, which was parallel to our best lode of ore. In the 40, west of King's shaft, we are cross-cutting south, believing that a portion of the lode is standing in that direction. We have a rise which we hope to communicate next week from the 50 to the 40; this will ventilate this part of the mine, and as a great deal of ore has been risen above this level (40), we shall continue this rise on speculation, which can be done for much less expense than resuming the 30, as we shall have to drive a

considerable distance before reaching any ore ground which we have seen below. In order to expedite the workings we have fixed a rod from the engine in the 5¢ and done the necessary work, as well as commenced a sump-winze in the bottom of the 60; the winze is down 2 fms., and the lode has a splendid appearance, and worth fully 40! per fms Our object in doing this is that this shoot of ore is in advance of the 85 end about 60 fms., and when this winze is sunk 10 fms. will enable us to drive east and west, so as to make a 70 fm. level with as little delay as possible. We think it right, however, to say, fearing it may mislead anyone as to the expense of sinking, in consequence of the winze being called a sumpwinze, that the cost for sinking it 10 ft. long is only 10!, per fm. We have eight pitches working, varying in tribute from 5s. to 10s. in 1f. Our stopes are much the same. We shall sample on Wednesday next not less than 65 tons of adventurers' ore, but we cannot say the exact quantity we shall have of tributers' ore, as it is not all yet at surface. In conclusion, it cannot but be seen that the course of ore in the sump-winze fully justifies us in the step we have taken, and as it imy ophinon that in mining time is money, and, therefore, the sooner a person sees the object (if worth pursuing) the better it will be. This mine if carried out on the usual principle will soon, Ithink, take its former position, and to prove we are developing the property with spirit (irrespective of tribute) we have opened since the last meeting 100 fms. 3 ft. of ground.—F. PRYOR, J. WILLIAMS.

The SECRETARY in reply to a shareholder, stated that the accounts

The SECRETARY in reply to a shareholder, stated that the accounts just presented included the December cost, but not the ores raised during that month, amounting to about 110 tons; the mine cost averages 500l, accounts the state of the sta

just presented included the December cost, but not the ores raised during that month, amounting to about 110 tons; the mine cost averages 500, per month.

The CHAIRMAN, in moving the adoption of the accounts and report, said that when he last had the pleasure of meeting the shareholders, four month, since the committee had occasion to congratulate them, as well as themselves, on having brought the mine from a slough of despond to at least a state of hopefulness; there had, however, been the continued fall in the standard, the result of which was a loss on the four months' working of 430. Had the standard advanced one month since, the same as it did last week, the balance against the mine would have been altered by 3801. It was very unpleasant to tell them that a loss had been made, but such was the case, and from no fault of their own. The mine was looking very well, and the committee had every reason to be satisfied with their new agent, who seemed to be thoroughly acquainted with the duties of his position. If the standard for copper ore continued about the same as now for the next six months they would be working at a profit. With respect to the shares unissued, the committee were simply trustees for the share-holders, and would most gladly act in any manner they (the shareholders) might think fit, either by allotting them pro rata among the shareholders—and he (the Chairman), for one, would be most happy to take his proportion—or offering them to the public; but previous to any steps being taken in the matter, the would state that it had just come to the knowledge of the committee that the some parries respecting those shares and the Peever part of the set; and, therefore, he thought that it would be advisable to adjourn the present meeting for a fortnight or three weeks, by which time, no doubt, the negociations would be completed, and they would have a tangible proposition to submit to the meeting. Mr. McCALLAN asked what would be the amount of call required to meet the debit balance?—Mr. Ward said 3s, pe

CHONTALES GOLD AND SILVER MINING COMPANY.

CHONTALES GOLD AND SILVER MINING COMPANY.

A special general meeting of shareholders will be held on Tuesday The report of the directors, to be submitted, states that they regret the estimates of produce in Mr. Beit's report of Sept. 5 have not been realised in consequence of which the additional capital siready raised on debenture proves insufficient; at the same time the confidence of the directors in Mr. Belt is unabated, and they believe with him that, provided the funds now asked for be obtained, there is a fair prospect of ultimate success. Mr. Belt's original agreement with the company was for one year only, but he some time ago offered to renew his engagement, and has only now returned to England, with a view of making arrangements for taking permanent charge of the mines. The directors think it right to impress upon the shareholders that unless additional capital be immediately provided it will be impossible to continue the working of the mines, and they, therefore, appeal to the shareholders to at once take up the remaining 15,000L debentures, of which the issue has been authorised.

The report of Mr. Belt states that in his report, under date Sept. 5 he submitted a description of the various mines belonging to the company, and ventured to make an estimate of the probable yield during the ensuing 12 month. During the first two months this estimate was fully sustained; but since then in consequence of encountering poor bars of ground in the main addit levels, then has been a great falling off in the yield of gold. Though the expectations expressed in his September report have not yet been realised, he is still of opinion that extended explorations will prove successful, and that the company ough to persever in their adventure. The present position is simply due to the fact that extended explorations will prove successful, and that the soon papend on the Consado has been exhausted before the main levels have opened out new supplies. These main levels were commenced as soon as he received intelligence th

MINING IN AUSTRALASIA-MONTHLY SUMMARY.

MINING IN AUSTRALASIA—MONTHLY SUMMARY.

Melbourne, Dec. 8.—An important new gold field has been recently discovered at Spring Creek, in the M'tvor district in this colony. Ther is already a population of over 6000 on the spot and in the neighbourhood, and the number is rapidly increasing. A township is about to be preciaimed there and the streets are already laid out by the surveyors. The latest reports inform us that three miles of ground are being worked, and a much larger quantity is being "prospected." Most of the milers are doing well, some of them making from 1 ox. to 3 oxs. to the lode of wash dirt, from a sinking of from 55 feet to 4 feet, "through coment, 35 feet of gravel, and a lighter sandy drift." This field is described as "a good poor man's diggings"—Le, not requiring the aid of large capitalists—and "as likely to afford remunerative employment to considerable population for many years." Another new rush has occurred as Berlin, near inglewood, where some new ground of extraordinary richness has been discovered. The almost daily "finds" of large nuggets here has been leading topic in the local journals for the last month. Several of the large have varied in weight from 10 oxs. to 17 lbs., and one lump uncarthed at Gil more's Guily weighed 42 lbs. The simultaneous occurrence of these two large rushes is somewhat unfortunate for the farmers, who are just now harvesting and who find great difficulty in getting hands at any reasonable rate of wage ADELAIDE, DEC. 8.—Trach has shown many signs of improvement during the past month, owing partly to the satisfactory state of the whest crops, combined with the continued yield of the gold diggings, and a considerable business has been done. Few complaints of the appearance of red-rush have been traven of the find of the gold diggings, and a considerable business has been done. Few complaints of the Moonta property. The news from the gold fields this month is not very important, many of the haad have been drawn off by harvesting operations. Reefing is being c

AUSTRALIAN MINES.

XUDANAMUTANA COPPER.—The directors have advices from the superintendent, dated Adelaide, Dec. 9:—"The north mail not being due until two hours hence, our latest dates are, therefore, the 30th ult. from Blinman, is which date the completing of the cost-sheet for that month had not been commenced. I intend visiting the mine next week, and leave Adelaide on Friday My visiting report will accompany the annual return, to be forwarded ext. mall. By extract from the Register of this morning, you will see that Mf. Fuller's tender for the construction of a railway northwards has been accepted, and that there is now every probability of the long-hoped-for line being commenced.

sy exerace from the Register of this morning, you will see that ME* Fuller's tender for the construction of a railway northwards has been accepted, and that there is now every probability of the long-hoped-for line being commenced." The captain (Dec. 1) reports—"There is plenty of wood to be had within a radius of 12 to 15 miles. Ore raised during the month, 466 tons; ore smolted, 366 tons copper made, 37 tons; copper dispatched to Fort Augusta, 35 tons 7 cwts. 3 queen. The mine is looking every rich, and everything going on satisfactoril; a me sorry to report so large a failing off in our make of copper this month, but a me sorry to report so large a failing off in our make of copper this month, but a supply of dry wood. Many of the teamsters are carting wood; this pays the better than carting wood."

WORTHING.—Dec. 8: I am glad to be able to say, so far as the prospects of the mine are concerned, that we are looking better than we have for some months past going north. Also, we have done better at the engine shaft, although we have had only nine men instead of twelve. We have smit aft. 10 in. of ground. The 85, north end, is greatly improved, especially toward the end of the month; the lode is 4 ft. wide, and will yield 3 tons of ore to limit to continues very wet, but much easier for driving; the present price of the control of the 35 for air. Here we have 30 fms. of ground to help through. We have a good lode in the rise, and also in the winze, so that it is nevery way likely it will continue all the way through; if so, we can drived our 63 and 73 from the rise, and escape the hard ground that stands between and the shaft. We hope to hole through in about two months from this time. The 63 and 73 south are without improvement. The stopes throughout the mile are about the same as in months past, except what has been taken away. Over the supplied of the

of 50 per cent.

PORT PHILLIP AND COLONIAL GOLD.—The quantity of quark
crushed during the four weeks of November was 5286 tons, yielding 1937 ozs. (*)
an average of 7 dwts. 6 grs. per ton. Receipts, 70561, 12s. 4d.; payments (inclusing the sum of 4391, 12s, paid on account of firewood and timber contracks)
42981, 5s. 1d.—profit, 275817s. 3d.; added to which was balance brought forward

from last month of 1898. 15s. 7d., thereby showing an available balance of 46571. 2s. 10d. The amount divided between the two companies was 25001., the Port Phillip Company's proportion being 16251. The balance of 21571. 2s. 10d. was carried forward towards meeting payment of firewood and timber contracts for the current season. The return for the first three weeks of December was —quartz crushed 3866 tons; pyrites treated, 76½ tons. Total gold obtained, 1678 ozs. 1 dwt.; average per ton, 8 dwts. 16 grs. Remittance, 16001. SCOTTISH AUSTRALIAN.—The sales of coal from Lambton Colliery or the month of November amounted to 12,479 tons.

ENGLISH AND AUSTRALIAN COPPER.—Adelaide, Dec. 9: All the perations of the company were progressing satisfactorily, and since the date of last advices a further shipment of 69 tons of copper had been made, in addition to the 200 tons then in course of shipment.

The Royal School of Mines, Jenmyn Street.

MR. WARINGTON SMYTH'S LECTURES.

MR. WARINGTON SMYTH'S LECTURES.

[FROM NOTES BY OUR OWN REPORTER.]

LECTURE XX.—We have now occupied some time with the subjects of the various methods of breaking away the rock, and cutting our passage through the ground, which naturally takes up a large portion of the cost of mining. It is, therefore, one of the divisions of a miner's duty, if the work is to be carried on with a due economy, to hich great attention must be paid. We have seen in many cases at it is impossible to advance except at a very slow rate, even with all the imposements of modern times and the employment of explosives, by which, no tensor of modern times and the employment of explosives, by which, no tensor of modern times and the employment of explosives, by which, no tensor of modern times and the employment of explosives, by which, no tensor of modern times and the employment of explosives, by which, no tensor of modern times and the employment of explosives, by which, no tensor of modern times and the employment of explosives, by which, no tensor of modern times and the employment of explosives, by which, no tensor of modern times and the employment of providing and alsour, it is necessary that the workmen should be paid so as to induce em to exert and exercise the greatest amount of industry, skill, and care, or herwise we may get bad and idle men, and not obtain a proportionate amount work done for the money expended. If if first point out the different grades workmen, it will be seen at once how large a proportion are paid wages pendent on the amount of work they do in a given time. If we compare the effect of the employment, and the nature of the departments, that the character of the employment, and the nature of the departments, that the character of the employment, and the nature of the departments that the other active we may be said to be parallel, although, of course, there are one kinds of work peculiar to each. If we take what is done in a large North tensor the modern time of the departments, that the collierts and a la

ground
utters and drivers.
n-setters or haugers-on
oorkeepers or trappers
At the surface. Trammers. Fillers. Not needed.

alders has which will have to be taken into account in making bargains with the men.

1.—The size of the excavation, which, as it may be, larger or smaller will way the price paid. The medium size of a level may be put at 6 or 7 ft. high and 4 ft. wide: It it should go beyond those dimensionathe enlarged space will make a serious difference, and if below it will not be economical to attempt to use sunpowder.

2.—The actual hardness of the rock.

3.—Its jointness, and whether it is vughy, or cavernous.

4.—Whether it is wet or dry, as it not unfrequently happens that the miner has to work in places streaming with water, which is not only inconvenient and mealthy, but makes the progress very slow.

5.—The price of living in the district—a matter of considerable importance also in new countries, where prices may be at an exceptional dearness.

6.—The depth from the surface and the state of ventilation which, if it be in good state, the men do better work, with the same amount of labour.

7.—The nearness or remoteness of the miners' dwellings, as those who have far to come cannot be expected to do so much work as those who are close at hand.

8. and lastly.—The distance the material has to be conveyed, and whether the manufal active in the distance the material has to be conveyed, and whether the manufal is included in the bargain.

There are other matters to be taken into consideration as affecting the example of mining, which can be influenced by careful arrangements and good management. For instance, in sinking a shaft at which a steam-engine is employed there is great saving in keeping it always at work. It is not probable that more than three men can work at a time, and, therefore, it will be well to always at work. It is not probable that more than three men can work at a time, and, therefore, it will be well to always at work. It is not probable to the probable of th

Internal and proglod for each warder. These bargains are stricted in the program of the program

also be upon their guard against their complaints of the mine getting very poor, which are often only intended to mask conceasions of this kind, and to or be blah, so as to conceal favorrable appearances, the miners get the advantage.

FOREIGN MINES.

ANGLO-ARGENTINE—A circular has been issued by the Chairman (Air. Henry Haymen) embedying the original report on the gold fields, received from Major Rickard, extracts from Mr. Barnard's letter, Capt. Vivian's report of the control of

from Apulco foundry, which will cost \$8 per quintal.

SOUTH CARADON MINE, AND CAPT. PETER CLYMO.—At the meeting of adventurers, on Tueaday, Capt. Clymo resigned the active management of the mine; and it is gratifying to observe that the meeting accepted the resignation in a manner of which Captain Clymo may well be proud, since it gives evidence of the high opinion which they entertained of his abilities. Instead of offering him a vote of thanks, which might have been regarded as a merely formal acknowledgment, it was decided that his name should be retained on the books as honorary manager, it being at the same time recommended that the future active management of the mine should be vested in Capts. Rule and Holman. In bringing the subject before the meeting the Chairman (Mr. Thomas Kittow) observed that "he had, by his perfect knowledge of all details, his practical acquaintance with underground operations, strict economy, and unswerving integrity, given this mine a prominence for management and success most beneficial to the interests of the company, and fully recognised by all those who have desired to see mining conducted upon sound principles."

have desired to see mining conducted upon sound principles."

THE MANUFACTURE OF WATCHES AND CLOCKS.—A most interesting and instructive little work, describing briefly, but with great clearness, the rise and progress of watch and clock making, has just been published by Mr. J. W. Benson, of 25, Old Bond-street, 99, Westbourne-grove, and the City Steam Factory, Ss and 69, Ludgate-bill. The book, which is profusely illustrated, gives a full description of the various kinds of watches and clocks, with their prices, and no one should make a purchase without visiting the above establishments or consulting this truly valuable work. By its aid persons residing in any part of the United Kingdom, India, or the Colonies, are enabled to select for themselves the watch best adapted for their use, and have it sent to them with perfect safety. Mr. Benson, who holds the appointment to the Prince of Wales, sends this pamphlet to any address on receipt of two postage stamps, and we cannot too strongly recommend it to the notice of the intending purchaser.

LONDON GENERAL OMNIBUS COMPANY.—The traffic recoints for

LONDON GENERAL OMNIBUS COMPANY.—The traffic receipts for week ending Jan. 24 amounted to 9308l. 1s. 10d.

the week ending Jan. 24 amounted to 93081. 1s. 10d.

HOLLOWAY'S PILLS—CONTINUED COLD.—The past summer was almost unexampled for its heat, and it is much to be feared that the change to winter weather will exercise the worst effects over the delicate, infirm, and aged. Holloway's purifying pills should now be taken to avert the ill consequences of the late trying seasor ; nothing beyond these pills and their accompanying "instructions" is necessary for every invalid to root out the latent seeds of disease, and to secure future good health. Depraved and poor blood will thus be purified and enriched, all congestions of the circulation, in the lungs, liver, kidneys, brain, or elsewhere, will be dispersed, the system will be releved from oppression, and the whole animal machine will be renovated.

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WATSON BROTHERS' MINING CIRCULAR

WATSON BROTHERS, M NING AGENTS, STOCK AND SHARE DEALERS, &c.
1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

MESSRS. WATSON BROTHERS return their most sincere thanks for the great patronage bestowed and confidence reposed in their firm for 25 years, and to assure their friends and clients it will be their carnest metavour to merit a continuance of both.

Messrs. WATSON BROTHERS have made arrangements for continuing their weekly Circular, which has had a large circulation for many years, to the columns of the Mining Journal, their special reports and remarks upon mines and mining, and state of the share market, will in future appear in this column. In the year 1843, when Cornish mining was almost unknown to the general pablle, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. J. Y. WATSON, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (first series, 1862), "Cornish Notes" (second series, 1863), "The Progress of Mining," with statistics of the Mining Interest, annually for 21 years, &c., &c. In the Compendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring success in the aggregate," and Messrs. WATSON BROTHERS have always a selected list on hand. Perhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and share dealing than there is at present; and, from the lengthened experience of Messrs. WATSON BROTHERS they are cubolidened to offer, thus publicly, their best services to all connected with mine or the market, as they have for so many years done privately, through the medium of their own Circular.

Messrs. WATSON BROTHERS transact business in the purchase and sale of mining shares, and other securities, payments of calls, receipt and transmission of dividends, obtaining information for clients, and sfording advice, to the best of their knowledge and judgment,

Messrs. WATSON BROTHERS also inform their ellents and the public that they transact business in the public funds, railway, docks, insurance, and every other description of shares dealt in on the Stock Exchange.

Messrs. WATSON BROTHERS are also daily asked their opinion of particular mines, as well as to recommend mines to invest or speculate in, and they give their advice and recommend mines to invest or speculate in, and they give their advice and recommend mines to the best of their judgment and ability, founded on the best practical advice they can obtain from the mining districts, but they will not be held responsible, nor subject to blame, if results do not always equal the expectations they may have held out in a property so fluctuating as mining.

Messrs. WATSON BROTHERS having agents and correspondents in all the mining districts and an extensive connection among the largest holders of mining

mining districts, and an extensive connection among the largest holders of mining property, have the more confidence in tendering their advice on all matters relating to the state and prospects of mines and mining companies, and are able to supply shares in all the best mines at close market prices, free of all charge lor commission.

SATURDAY.—The market continues very dull, and scarcely any busi-ess doing. West Seton, 205 to 215; Great Laxey, 18½ to 19½; West Chiverton, to 60; Prince of Wales, 22s. to 24s.; Don Pedro, 4½ to 4½; Taquarii, 13s.6d.

to 158, MONDAY.—Market very dull, and prices chiefly nominal. Chontales declined to 17s. 6d., 22s. 6d.; Drake Walls, 18s. to 20s.; East Grenville, 3% to 3%; New Lovell, 2½ to 2¾; Taquaril, 13s. 6d. to 16s.; Prince of Wales, 22s. to 24s.; West Frances, 40 to 41; West Seton, 205 to 216; Wheal Grenville, 31s. to 33s.; Yuda-

Lovell, 2% to 2%; Taquarii, 10s. 0d. to 10s.; Frince of walles, 22s. 50-2as.; West Frances, 40 to 41; West Seton, 205 to 216; Wheal Great North Laxey, West Seton, Great Laxey, and Marke Vailey. East Caradons are weaker; New Lovell, 42% to 3; Great North Laxey, 28-6d. to 27s. 6d.; West Seton, 210 to 220; Great Laxey, 20 to 21; Marke Vailey, 9½ to 9¾; Prince of Wales, 21s. to 23s.; West Chiverton, 66 to 58; Chiverton, a to 3½; Bast Caradon, 9 to 9½; Don Pedro, 4 to 4½; Taquarii, 13s. 6d. to 15s.; Chontales, 17s. 6d. to 22s. 6d.
Whonesday.—The market is mederately active. New Lovell is in good demand at an advance. Chontales receded to 20s., sellers; New Lovell, 3 to 3½; Great Vor, 10½ to 11½; West Frances, 39 to 41; Seton, 77½ to 82½; Uny, 3½; Great Vor, 10½ to 11½; West Frances, 39 to 41; Seton, 77½ to 82½; Uny, 3½; Great Vor, 4½; Taquaril, 13s. to 15s.
Thursday.—Good demand for New Lovell, at an advance. Seton, West Seton, Prince of Wales, 20s. to 25s.; West Chiverton, 52 to 57; Chontales, 15s. to 20s.; Don Pedro, 4 to 4½; Taquaril, 13s. to 15s.
Thursday.—Good demand for New Lovell, at an advance. Seton, West Seton, Prince of Wales, and Gonamena also enquired for. West Chiverton and Chiverton Moor, 4 to 4½; Chiverton, 2½ to 294; Tineroft, 16½ to 17½; Drake Walls, 17s. 6d. to 25s.; Gonamena, 20s. to 25s.; West Chiverton, 52 to 54; Chiverton, 60c, 4 to 4½; Chiverton, 2½ to 294; Tineroft, 16½ to 17½; Drake Walls, 17s. 6d. to 29s.; Chontales, 17s. 6d. to 22s. 6d.; Don Pedro, 4 to 4½; Taquaril, 3s. to 15s.

is, to 15s. FRIDAY.—Settling-day. The chief demand to-day has been for West Chiverton nd New Lovell, at an advance. West Chiverton, 64 to 56; New Lovell, 3¾ to ½; Prince of Wales, 23s. to 25s.; Chiverton, 2½ to 2½; Don Pedro, 4½ to 4½; hontales, 17s. 6d. to 22s. 6d.; Yudanamutaua, 2 to 2½.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

BRONFLOYD.—T. Kemp, Jan. 27: New Shaft: The part of the lode opened on by the 73 fathom level, west of cross-cut, is without change, producing about 15 cwts, of ore per fathom. The lode to the west of the cross-cut, in the 62, is worth 3½ tons of ore per fathom—a fine-looking lode. The part of the lode carried down by the winze sinking below this level is producing saving work for lead ore. The stope under the 52 is worth 1½ ton of ore per fathom. The stope in the back of the 52 is without change. The place is full of stuff, and we shall be obliged to suspend this bargain for a time, in order to get the stuff cleared out, which will be done as quickly as possible. The 52 fathom level end, cast of Barton's cross-cut, is without any alteration to notice. The south part of the lode opened on from the 52, near to and west of did shaft, is composed of very hard spar, spotted with lead and copper ores—progress slow. The ground in the 46 fathom level end west is favourable for driving, and the lode is at times producing stones of lead ore.

larton's erose-cut, is without any alteration to notice. The south part of the lode opened on from the 52, near to and west of old shaft, is composed of very hard spart, spotted with lead and copper ores—progress slow. The ground in the 46 fathom level end west is favorrable for driving, and the lode is at times producing stones of lead or dealing stones of lead or shaft, sinking below the 24, is 4 fs. wide, and very good for lead and blende, but the water is so very quick, and principally issuing with great force from the bottom of the shaft, that I am sorry to say we can make but very little progress in sinking—in fact, we have not been able to work in the bottom of the inline more than about two days a week on an average for weeks past. The 24 fm. level ends have not been so producity at a fuel 21 this bunch of ore was not more than a fathous in length at most, while at the 24 it was upwards of 20 fathoms long, and appears to be lengthening considerably as it goes down. In the western end we have not yet touched upon the run of ore ground that proved so productive at and above the 12; this run of ore must either be shifted further west than we expected or otherwise, and which is still very likely, the end has happened to be driven in a poor floor in the lone. The contractive at and above the 12; this run of ore more than the have lust to mine, and I am of opinion that this is the same run of ore that we have just to make the summary of the contractive of the lone throughout the 24. The tribute pitches at the 24 are still looking pretty well, and yielding a fair quantity of ore. Our raisings for the current month will be about 20 tons of lead, with some tons of blende, but this quantity might have been much more cashly increased to 4 tons if we had not be the proverty of the way of the contractive of the summary of the summary of the contractive of the summary of the summar

In the bottom of this level since my last, and the prospects of having a good mine at a reasonable depth were never more encouraging than at this moment; and from present appearances I am daily expecting to have a further improvement to report in this drivage. There is no change elsewhere to notice. The buildings named in my last are completed, and are in first-class order.

CARADON CONSOLS.—S. Bennetts, Jan. 26: The 78 north cross-cut is apparently getting through the elvan; and the south cross-cut is in the midst of small strings of ore, with water still is uling from the end; this looks as if the lode is near. The end on the goossan lode is also losing the elvan, and the lode containing more spots of ore, and soft fluor-spar. The Clymo's lode, in the 78 west, is smaller than we have seen it for some weeks previously.

CARADON AND PHŒNIX CONSOLS.—Wm. Johns and Son, James Kelly, Jan. 22: We are driving the 60, west of shaft, on No. 1 lode, by a full pare of men; the lode will not be cut into before our next setting-day. In the 50 cast, on No. 2 lode, we are nearing the cross-course seen in the upper levels, consequently the ground is in a disordered state, with the lode split up in branches. In the winze sinking below the 40, in advance of this end, the lode is over 3 feet wide, consisting of quartz, mundle, and spotted with yellow copper ore. We have had a pretty deal of water to contend with, as well as in many other mines of late, by the heavy falls of rain; notwithstanding this, the water has been kept out without the least hindrance.

CARDIGANSHIER LEAD.—E. Pearse, Jan. 26: The 50 fm. level cross-cut is

by the heavy falls of rain; notwithstanding this, the water has been kept out without the least hindrance.

CARDIGANSHIRE LEAD.—E. Pearse, Jan. 26: The 50 fm. level cross-cut is driven 8½ fathoms north of the engine-shaft, and I expect the lode will be intersected in about 4 fms. more driving, when there is every reason to believe it will cut rich, as there is a good bunch of ore gone down below the 40, and the ground in the cross-cut is spotted with lead ore, which I consider a good indication. The stopes throughout the mine are producing their usual quantities of lead. I should recommend driving on the south lode in the 50, as it has come into the engine-shaft at this point, and in cutting the lodge in the west end of shaft we have broken some good rocks of blende and spots of lead ore intermixed; the lode is improving and getting larger, and there is every indication of laying open valuable ground. The dressing is being pushed on as fast as possible, and yesterday we sampled 20 tons of good quality lead ore.

CHANTICLEER,—W. Wasley, Jan. 28: Seeing the branch spoken of in my last report looking very promising in the stopes in the roof of the 110 yard level, west of shaft, I took the men from the stopes last week, and put them to drive the 110 yard level south on the branch, and am glad to say that in driving from 3 to 4 yards we have got about ½ ton of ore, and the ground and branch, or cross lode, in the present end looking very promising, and is producing some very fine lumps of ore.

CHINDERTON MORE—I Juleff Wm. Bennetts, Jan. 28: In the 85. West of

lode, in the present end looking very promising, and is producing some visual numps of ore.

CHIVERTON MOOR.—J. Juleff, Wm. Bennetts, Jan. 28: In the 85, west of engine-shaft, the lode is 3 ft. wide, composed of flookan, mundle, and stones of lead. The lode in the 85, east of engine-shaft, is 2 ft. wide, composed of flookan, spar, and mundle. The 75, west of engine-shaft, is worth 5 cwts. of lead per fathom. The stopes in the back of this level are producing their usual quantities of silver-lead. In the 65, east of engine-shaft, the lode is 3 ft. wide, and producing good stones of lead. The winze in the bottom of the 65, west of cross-cut, is worth 10 cwts. of lead per fathom. The cross-cut north and south of Clogg's shaft, at the 40 fm. level, are in each about 9 ft., and the men are making good progress.

cut, is worth 10 cwts, of lead per rathom. The cross-cut north and south of Clogg's shaft, at the 40 fm. level, are in each about 9 ft., and the men are making good progress.

CREBOR,—J. Gifford, Jan. 26: On Saturday the following bargains were set:—The 120 east to drive on the south part of the lode by six men, stent the month, at 90s; per fathom; the portion of the lode carried is 2½ ft. wide, composed of capel, quartz, and white iron, with occasional stones of copper or. The 120 west to drive by six men, stent the month, at 90s, per fathom; the part of the lode carried is 2 ft. wide, composed chiefiy of quartz and prian, intermixed with mundle. The 96 fm. level cross-cut to drive by two men, stent 1 fm. at 110s, per fathom; in the present end the ground is intermixed with intermixed with mundle, and spots of copper ore. A pitch in the back of the 108 east by two men, for two months, at 18s. 4d. in 1L., and 12s. 6d. per produce. Davis's pitch, in back of the 108 east, by four men, for one month, at 6s. in 1L., and 12s. 6d. per produce. A pitch in back of the 84 east by two men, for two months, at 1s. 6d. in 1L., and 12s. 6d. per produce. We have our sampling all ready—about 60 tons.

CELDBLA.—F. Puckey, A. Cundy, Jan. 26: In the 142, west of Walker's shaft, we are still continuing the driving of the end by the side of the lode; the ground is rather spare for progress. In the stopes in the back of this level, east of the winze, the lode is full 8 ft. wide, producing low-class work for tin, worth 8L per fathom. In the 130 fathom level end, driving west from shaft, the lode and branches for 12 ft. wide are worth 201, per fathom. The lode in the stope in the back of this level is 12 ft. wide, and in places worth 30L per fathom. In the winze sinking below the 130 we are only carrying down about 6 ft. of the lode, which is composed of quartz, peach, and in places worth 30L per fathom. In the western stopes, in the back of the lode in the lode in the back of the lode, safe of eastern stopes, in the back of the same

pitches are without alteration since last report. All our machinery is In good working order.

GWM DARREIN.—R. Clocker, Jan. 28: I have made preparations for commencing to dress the ore, and have got some people spalling, &c., and making ready for the crushing-mill. The necessary timber I have taken out, and expect to commence crushing about Monday next, and will get on with everything as fast as possible. In squaring down the lode in the engine-shaft to its width, 9 ft., we have good branches of silver-lead ore throughout, and I expect our next advantage to be made for deepening the engine-shaft will prove to be very productive. As we are going on with the dressing we purpose working away any ground that will leave a good profit, and I have accordingly made arrangements for working two tribute pitches at the lo, at 11. 11s. per ton, the ore being worth from 18t. to 20t. per ton; this is for eight men: 130 fathoms west of the engine-shaft we are driving by two men a level westward, where there is good ore I ft. wide in the bottom of the level, which its shallow, and as this gains ground in going west we are in hopes of its reaching the back of the level in some little distance driving, and it may, probably, lead to opening out some tribute ground in this direction.

of the engine-shaft we are driving by two men a level westward, where there is good ore 1 ft. wide in the bottom of the level, which is shallow, and as this dians ground in going west we are in hopes of its reaching the back of the level in some little distance driving, and it may, probably, lead to opening out some tribute ground in this direction.

EAST PLYNLIMMON.—J. Paull, Jan. 26: In the adit level driving west of the River Wye the rock does not yet rise as fast as expected, and consequently we are just skimming the back of the lode in a deposit of stiff clay; we shall all doubtless soon be through this kind of ground and in the lode, and to hasten the driving will at the setting on Saturday next increase the men from four to fix in this level. In the western part of the sett (adjoining Plynilmmon Mine) a long open cutting for the deep adit cross-cut north has been brought in, and the few now taken cover. From Saturday next we intend to have six men here also, so that no time will be lost in driving forward to the lodes.

EAST ROSEWARNE—C. Glasson, Jan. 28: In King's shaft, sinking below the 115, the lode is 12 in. wide, worth 62, per fathom. In the 115, east of shaft, the lode is 20 in. wide, worth 62, per fathom. In the 115, east of shaft, the lode is 12 in. wide, worth 62, per fathom. In the 115, east of shaft, wide, worth 44, per fathom. In the 95, east of shaft, the lode is 12 in. wide, worth 62, per fathom. In the 95, east of shaft, the lode is wide, worth 44, per fathom. In the 95, east of shaft, the lode is 12 in. wide worth 44, per fathom. In the 95, east of shaft, the lode is 12 in. wide worth 44, per fathom. In the 115, east of shaft, the lode is 12 in. wide in the 10 in

stope west is worth a tone of ore per fathom. All other going down below the 60 east, is worth 4 tons of ore per fathom. All other points of operation are without change. Upon the whole, our present prospects are cheering.

GONAMENA.—R. Pascoe, Jan. 28: The 138 west, on Venning's lode, is improved since last report, now worth 5 tons of copper ore per fathom; this level does not appear to be on the same part of the lode as that on which the winze below the 126 is sunk; we have, therefore, put the men to drive north from the bottom of the winze to intersect it. No alteration in any other part of the mine. GREAT NORTH DOWNS.—Wn. Rich, Wm. Rinch, Jan. 27: We are urging on the sinking of Sieggan's shaft as rapidly as possible; the south part of the lode carries good stones of ore, and the ground looks very congenial for copper; the water, however, is very powerful at this shaft. In the 84, east of Sieggan's, we find the main part of the lode is standing north of the level. We are now cross-cutting in that direction to effect a communication with the winze sunk below the 74, on the north part of the lode; we hope to hole this ground in a few days, which will ventilate the bottom of the mine, and open out the lode for stoping. The 84, west of Sieggan's, on the north part of the lode, is suspended for the time, and the men engaged driving a cross-cut through the lode to prove the north part of it; the end of the cross-cut is letting out water freely. The stope in the 74, over this end, is worth 121, per fathom. Three stopes in the 74, west of Sieggan's, are worth in the aggregate 281, per fathom. The south lode in the 64, west of cross-cut, has made a splice, and is small and poor for the time; there is a good lode in the bottom of this level, worth fully 201, per fm. The rise in the back is worth 101, per fathom. The extopes in the 74, over this end, is worth 121, per fathom. The costs-cut, has been always a splice, and is small and poor for the time; there is a good lode in the 64 fm. level, east of tores-cut, has lo

GREAT SOUTH CHIVERTON.—J. Nancarrow, Jan. 26: I am glad to say the 50 looks better to-day, the lode contains more mundle and blende, with spots of lead and copper, all indicating more lead shortly. The shoot of lead in the 40 west, seems to be gone below the level. No alteration in any other place. GREAT SOUTH TOLGUS.—John Daw, Jan. 26: The engines and pitwork are working well, and we are forking from 2 to 3 fathoms in 24 hours; at this time the water is 7 fathoms below the 100. We are obliged to put off the copper sampling, owing to the water having risen in the pitches before we could get the ore to surface.

west, seems to be gone below the level. No, alteration in any other piace.

GERAT SOUTH ACTUAL STATEMENT OF THE STATEMENT OF

near this point.

NEW BOW HILL.—A. Kent, T. Trelease, Jan. 26: At the engine-shaft we are sinking as fast as the nature of the work will permit; the ground at present is rather stiff. Our pitches in the 35 are without any change to notice.—Wheal Louisa: In the? cross-cut we are making good progress towards the lode; ground pretty good for driving through, and also congenial for the production of lead ore. In the 50 fm. level, driving east, the end is rather stiff for driving, consequently two mee, cannot make much headway in one week; there is no change in the nature of the lode to cause any remark. All other operations are proceeding as usual.

consequently two meet cannot make much headway in one week; there is no change in the nature of the lode to cause any remark. All other operations are proceeding as usual.

NEW GREAT CONSOLS.—R. Pryor, T. Bennetts, R. Trathen, Jan 25: Ellis's engine-shaft men are busily engaged in completing the shaft, in order to resume the driving of the bottom level (86). The lode in No. 1 stope, in back of the 64, is worth 104, per fathom. The lode in No. 2, in back of ditto, is worth 131, per fathom. The lode in No. 3 stope, in back of ditto, is worth 142, per fathom. In No. 4 stope, in back of this level, the lode is worth 140, per fathom. The lode in the stopes in back of the 52 is worth 97, per fathom. The lode in No. 4 stope, in back of the 40, is worth 161, per fathom. The lode in No. 2 stope, in back of the 40, is worth 161, per fathom. The lode in No. 2 stope, in back of the 40, is worth 162, per fathom. The lode in No. 2 stope, in back of ditto, is worth 97, per fathom. The lode in No. 2 stope, in back of ditto, is worth 98, per fathom. The lode in No. 2 stope, in back of ditto, is worth 98, per fathom. The lode in No. 2 stope, in back of ditto, is worth 98, per fathom. The lode in No. 2 stope, in back of ditto, is worth 98, per fathom. The lode in No. 2 stope, in back of ditto, is worth 98, per fathom. The lode in No. 3 stope, in back of ditto, is worth 98, per fathom. Rendle's shaftmen are making fair progress in sinking this shaft, which is being pushed on with all speed.

NEW TRELEIGH.—S. Michell, Jan. 26: The lode is looking very well in the 26 stapes and the stopes in the lode west, and so are all that have seen it. Nothing shall be left undone to get the ore to surface that is oloking when taken down. I am disappointed in the lode west, and so are all that have seen it. Nothing shall be left undone to get the ore to surface that is discovered.

NEW WHEAL TOWAN.—R. Pryor, Jan. 27: The lode in the stopes in the back of the adult level is just the same as when last reported on, worth fully 1 ton of copper ore p

holed to winze under the 196. The rise over the 196, east of Pract's shart, is communicated with the winze under the 183, and the ground thus laid open 18 let at 2s. 9d. in 1l. tribute.

NORTH DOWNS.—F. Pryor, J. Williams, Jan. 28: The lode in the winze continues good, and of the same value as last reported, 40l. per fathom. No other alteration in any part of the mine.

NORTH POOL.—J. Vivina and Sons, F. Clymo, Jan. 28: In sinking Ballarat.

ADELIN FUUL.—J. Vivian and Sons, F. Clymo, Jan. 28: In sinking Ballarat shaft under the 40 we are making good progress, and the lode is increasing in size and improving in character, containing copper ore. In the 30, east of cross-cut, on the middle lode, the lode is 15 inches wide, composed of copper ore and quartz. We have entered a parcal of copper ore for sale on Feb. 4, computed 14 tons.

and quariz. We have entered a parceal of copper ore for sale of Feb. 4, computed 14 tons.

OLD GUNNISLAKE.—F. Phillips, Jan. 27: Parker's shaftmen have completed the fixing of the lift, &c., and are now pushing on the sinking of the shaft as fast as possible. We have a hard bar of ground in the shaft at present, but from its appearance I am led to believe it will not be long before we shall have a change for the better. We are now 18 ft, below the level (4 ft. 6 in. having been sunk this month), with all our pitwork complete, so that I hope we shall have nothing to hinder us for the future. The only change in the lode is a little more prian. The little engine is working well, and not consuming much coal. In the 48 west the ground is still favourable for driving, about 3 fathoms having been driven this month. We are carrying a part of the lode, which is composed of capel, spar, and gossan, and I have noticed to-day some small spot of yellow copper ore.

of yellow copper ore.

OKEL TOR.—John Rodda, Jan. 28: The lode in the rise in the back of the 80 cast consists of capel and peach, with a little ore and mundic intermixed. The stope in the back of this level will yield from 2 to 3 tons of ore per fathom.

In the 86 Jahloon level ced, west of the erose of the lichest actually from a carry mayorement. The lot is the winness sinking below the 68, and 66 Gery's cross of 1 sworth from 4 to 15 cons of one per fathem. There is mayorement of the control o

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lode in the 37 north is not yet cut through. The several strong plants are being rapidly completed.

TREEREW.—Jan. 26: The engine-shaft is now 13 fms. 1 ft. below the 20, and is now set to sink 9 ft. more, at 101. 10s, per fathom; when this is done we shall proceed to put in the cistern, and fix the plunger-lift, &c. We have made a good plat at the 30, and everything is ready to begin the driving of the cross-cut. We have put the men from the 20 south to cut into the lode to see what; it is; we have only just broke through the wall of it yet, it appears to be more loose and sparry than where we cut into it first. We have now set another pare of two men and two boys to drive north from the cross-cut (from shaft) in killas

by the side of the lode, at 21. Lis. per fathom; it will be advisable to drive this it was mix from surface to within 3 or a fath tone of the call to express of its, of the surface of the call to the permed of its, of where it in the call to the call to the permed of its, of where it in the call to the call to the permed of its, of where it is not to the call to t

all fixed to the 32, are in good working order.

WHEAL AGAR.—E. Rogers, Jan. 27: The cutting of the plats, both in the 170 at the flat-rod shaft, and also in the 130 at the engine-shaft, are being completed as fast as possible—the former at 91. and the latter at 121. per cubic did for the 10 is being driven by four men, at 41. per fathom—lode poor.

WHEAL COATES—(Special Report).—V. Bryant, jun., Jan. 25: This mine is situated on the north-western slope of the St. Agnes Beacon, having on its west the St. George's Channel, and on the east Wheal Coit and Royal Poberrow Mines. The set extends more than half a mile in length on the course of the 11 lodes, which in the western portion of the sett have been profitably worked for centuries, returning hundreds of thousands of pounds worth of tin. The eastern erroportion has never been developed, nor, indeed, has any portion of the Beacon above the base or near the cone of the hill, although within the radius of a mile are some of the richest tin mines ever worked in Cornwall, and whose lodes run through this sett—Wheal Kitty, Penhalls, Polberrow, Wheal Friendly, and the latter alone having paid to the Enys family profits amounting to nearly 200,000. The sett of the profits amounting to nearly 200,000. The sett of the set of the set

Evans, the manager, then commenced extensive operations in the western part of the sett, within 100 fms. of the Wheal Coates shaft sunk by the late Captain Newton, and proved highly remunerative, with every appearance of continuation in Wheal Coates sett, and furthermore in the Wheal Colt Mine they have recently opened on a north lode, and proved lit to be also very productive for tin; this has not been seen in Wheal Coates, but can be only a little to the north of the present workings. The workings in Wheal Colt, being on the eastern slope of the hill, are about 20 fms. deeper than Newton's shaft, which has been cleared and opened on the lode, and the ground is found to be of a similar nature to the tinstone in Wheal Colt, and producing about 10 ibs. of tin to the ton of stuff, and will, I have no doubt, improve in depth, and become a very rich and permanent mine, when worked at and below the level of the deposits of tin in the adjoining to draw the water and stamp the stuff, about 50 fms. to the west of Newton's shaft, being near the junction of granite and killas, and where there is a nice preclivity for the laying of a stamps floors, as immediately on the erection of an engine returns would be made. I calculate that about 1250, would be required to erect engine and sink the shaft 20 fms.:—Cost and erection or engine, 650l.: 20 fathoms shaft, at 111, 220l.; pitwork, &c., 150l.: agency and other expenses, 230l.—1250l. With this sum economically laid out it would only require a little time to develope a splendid property, amply compensating the shareholders for their outlay.

WHEAL OURTENAY.—J. Gifford, Jan. 27: Setting for February: To drive

shaft, being near the junction of granic and killas, and where there is a nice procedity for the laying of a stamp shoors, a luminositaty on the evention of an procedity for the laying of a stamp shoors, a luminositaty of the cortex of the procedity of the layout of layout

WYE (Lianidices).—J. Pauli, Jan. 26: At the deep adit level, driving west, some very fine stones of lead ore have been broken during the last few days, and the lode in the present end is of the most encouraging appearance, strongly mixed with lead ore. Murchison's shaft has reached a depth of 11½ fathon's from surface, and the men are now engaged putting in easing and dividings, and will resume sinking next week. The building of a store-room and stable, with office over them, and smithy adjoining being completed, the masons have commenced building pit for the 49-feet water-wheel, which will now be pushed onward as fast as possible. A water-course from the brook Cyff for over ¾ of a mile long has been excavated and made, and we now have the water brought home ready to supply the wheel when erected.

SLATE QUARRYING IN PEMBROKESHIRE,—The Trefach Slate and SLATE QUARRYING IN PEMBROKESHIRE.—The Trefach Slate and Slab Quarry, which is described as possessing great natural advantages, and yielding slate of a durable quality, is about to be developed on a more extensive scale than heretofore. The property has been tapected and reported upon by Mr. J. R. Price, proprietor of Liandilo Slate Quarry, Macaclochog, near Haverfordwest; Mr. Evan Pritchard, agent to the Rose Bush Slate Quarry, Maenclochog; and Mr. Samuel Jenkins, F.G.S., who concur in expressing favourable options as to its prospects. Mr. Price believes that the slate vein might be worked to a very great profit, and form, therefore, in all probability, a safe object for the investment of capital. Mr. Pritchard considers the property deserves to be tested, so as to make it worthy the attention of the public. And Mr. Jenkins states that it is of very great prospective value, and presents a good field for the introduction of capital.

Lead Mining In Wales—Probably there is more life in lead.

field for the introduction of capital.

LEAD MINING IN WALES.—Probably there is more life in lead mining in the Montgomeryshire district at present than in any other part of the Principality. The Dyliffe Mine, belonging to the Right Hon. John Bright and Company, is returning, as usual, about 200 tons of lead per month, an amount of production which leaves a very fine profit. With some improvements in dressing machinery, which will be completed early in the spring, it is expected that the returns will be increased about 40 to 30 tons per month, by dealing with poor ores, which are now little available. The Van Mine, which principally belongs to the representatives of the late Mr. Morris, of Swestry, is now returning close upon 150 tons a month, giving a profit of the rate of upwards of 12,000t., a year, which returns and profits, however, could be largely increased, as, in proportion to the returns, the reserves are said to exceed those of any lead mine in the kingdom. It was rumoured last autumn that the Van Mine was about to be purchased by Messrs, Taylor, for the purpose of being formed into a company. Report says that 60,000t., was offered and refused; indeed, competent judges value the mine at fully 100,000t. The whole expenditure on this mine, up to the time of its making profits, scarced; vached 6000t., a specimen of the nature of the success that may be expected from Welsh lead mining. Twenty years ago Mr. Le Faux, a local gentleman, similarly realised a fortune of about

40,000L on an expenditure of a few hundreds, in working the Penclyn Mine, on the same vein as the Van. Brynpostig is returning about 40 tons of lead per month, and blende dn proportion, which leaves a fine monthly profit. The increase of water here will probably necessitate a new engine, and consequently some increase of capital; but after this is done, Brynpostig ought readily to be able to pay the shareholders 50 per cent, on its capital. It is said the well-known ancient mines on the left bank of the Dovey, near the borders of Montgomery and Cardigan, are about being re-worked, under the name of the Liandovey Mines. These mines, which may be considered as belonging to the Dyliffe district, made great returns of lead in the ancient times, and have this great a vantage, that they can be drained for 30 fathoms below the present bottom by addt levels. The Plynlimmon Mine, similarly situated, owned by a wealthy private Birmingham company, seems likely to turn out as fine a mine as the Van, a lengthened run of rich ore having been gone through in the deep adit.

ANOTHER FATAL COLLIERY EXPLOSION.—A telegram, received late last night, states that yesterday morning (Friday) a serious explosion took place at the Springwell Colliery, in the Gateshead district, the property of Messrs. Bowes and Co. The mine bore a good character for careful management, and more than thirty years had elapsed since any mishap of this kind occurred therein. It is supposed that the explosion arose from the use of naked lights. Three men are killed, and several others injured; two of those dead were the victims of the after-damp.

ON THE HAULAGE OF COAL.—The report of the Committee appointed by the North of England Institute of Mining Engineers to investigate this subject has just been issued (through Mr. A. Reid, of Newcastle-on-Tyne), forming a handsome volume of nearly 200 pages of letter-press, and upwards of 50 pages of engravings. The Tail-Rope, Endless-Chain, and Endless-Rope systems of haulage are fully described and discussed—the conclusions arrived at being that the Tail-Rope is not desirable, except when the plane to be worked has numerous branches, and when they and the wagon-way are either level or undulating; that the Endless-Chain is adaptable to every condition of wagon-way, but will only work safely in a straight line, or round a slight curve; and that one arrangement of the Endless-Rope system may be expected, under some circumstances, to supersede the Tail-Rope. The report will be fully referred to next week.

RATING OF MINES.—An attempt has been made by Mr. W. H. Pea-cock, jun., of Barnsley, to show that a farmer is placed at a disad-vantage by the creation of an immense iron industry around him, and he instances a case where in the Cleveland district the rating on and he instances a case where in the Cleveland district the rating on the same farm has gradually increased from 20t. per annum before the discovery of the ironstone, in 1850, to 100t. at the present time, but Mr. Peacock does not state whether the increased rating is due to the increased value which the property has acquired through the existence of the very iron mines of which he complains. Before Mr. Peacock's arguments can have any force he must state the percentage upon the assessed value of the land in each year which has been raid in vates.

SOUTH FRANCES AND WEST BASSET BOUNDARY DISPUTE,-This SOUTH FRANCES AND WEST BASSET BOUNDARY DISPUTE,—Inis long-litigated question was again brought forward yesterday, when the cause "Thomas v. Richards" (formerly "Lyle v. Richards) came before Vice-Chancellor James for the cross-examination of witnesses. The case occupied the Court for some hours, when the decision was given against West Basset—the bill being dismissed, with costs.

LEAD MINING IN WALES-BRYNYSTWITH MINE.-A perusal of LEAD MINING IN WALES—BRYNYSTWITH MINE.—A perusal of the details of the special meeting, reported in another column, will show that this property is being vigorously developed, and that its general prospects are of the most encouraging character. The information afforded by the managing director elicited the satisfaction of the shareholders. The various authorities upon whose opinion the present company resumed operations have been supplemented by others, among whom there is a concurrence of testimony that the only condition necessary to ensure success is an energetic and economic working. Since the meeting the mine has further improved.

CWM DWYFOR COPPER AND SILVER-LEAD MINES.—The miners CWM DWYFOR COPPER AND SILVER-LEAD MINES.—The miners are now actively engaged in widening the cross-cut into the Champion copper lode at surface, preparatory to driving east and west on this enormous lode, the object being to get out as much of the orey part of the lode as can be broken, as well as to extend the levels east and west, in order to lay open ore ground before the 12 fathom level comes in, to develope the mine at that depth. The water-wheel and crusher are now being contracted for, and by the time these are receted there will be plenty of valuable lodestuff to operate upon. Besides, the probability is that other rich deposits of copper will be cut into. Great interest appears to be taken in this and other Welsh which we mining eachtlaits. mines by mining capitalists.

FRONTING AND BOLIVIA.—The usual advices have been received through the West India Mail, and a remittance of four bars of gold weighing about 350 ozs. The reports from the mines are considered satisfactory.

MINING NOTABILIA. [EXTRACTS FROM OUR CORRESPONDENCE.]

CASTELL CARN DOCHAN (Gold).—Capt. J. Parry (Jan. 27) reports—I am happy to state that we have found a little visible gold this week. The ground in the forebreast of the cross-cut, in the deep level, is better for cutting than when last reported on. When we have the driving extended some 10 fms. more, and a communication effected from the end of it with the shallow adit above, we shall be able to raise 200 tons of ore monthly.

more, and a communication effected from the end of it with the shallow adit above, we shall be able to raise 200 tons of ore monthly.

NORTH JANE.—This mine has greatly improved, and the prospects were never so encouraging as at the present time. They are raising tin, and the sales are expected ere long to greatly increase, excluding important discoveries to take place. This mine adjoins and embraces the same lodes as Wheal Jane, shares in which were 2l. each two years since, but now 45l., and paying (4l. to 9l. per share yearly in dividends.

NANGILES.—Since the late advance in tin, 22 men have been put on the tin ground. The tin sales will come into the May meeting account; this is exclusive of the copper sales, which by that time must increase, as a considerable quantity of copper ore has to come away between the 120 and 130 fm. levels. The mine is in thorough working order, having two new boliers, and a third in good condition. There is an 30-in. pumping-engine, of sufficient power to put the mine 80 fms. deeper, if necessary. Of all the mines in Cornwall, few can boast of such a splendid position. Consolidated Mine has paid 1,500,000l. in dividends, and shares rose to 900l. each. All their lodes go through the north part of Nangiles, and it is one of these lodes they will cut in a few weeks in the 130 north cross-cut. All the lodes of the United Mines pass through Wheal Clifford into the south part of Nangiles.

PEDN-AN-DREA.—The adventurers in these mines, after several years of perseverance, and at a cost of some 50,000l., are, it appears, to be rewarded. Last week in the north portion of the mines the lode was cut into at the 95 fm. level cross cut., worth 100l. per fm. The lode has also been cut rich at the 55 and 47 fm. levels. This vast discovery of the will not only be a great hount to the sharcholders, but to the town and trade of Redruth. The shares have already considerably risen in value.

NORTH POOL.—The shareholders in this mine are likely soon to be rewarded for their patience and outlay. It

WHEAL MARY HUTCHINS.—On visiting this mine I was glad to see every part of the workings going on very satisfactorily: they are gradually improving, and are now in a lode running east, worth fully 30, per fm., and in a most splendid channel of ground. This easterly working is gradually approaching the granite of Hemerdorf Ball, and, therefore, there seems to be a great prospect of a fine continuance. I have little doubt the adventurers will soon be rewarded by good dividends.

Seeing in the Journal for a long time the BOYALTON MAYN records.

Seeing in the Journal for a long time the ROYALTON MINE reports bearing no signature, and having watched the Tin Sales in Cornwall for a long time, I have never seen this mine mentioned. If the tin is sold privately it would be as well if the agent would publish the number of tons sold, the price per ton, and the profit made on such sale. This would remove any mistrust.

The last sale of silver-lead ore at PRINCE ARTHUR MINE (late

The last sale of silver-lead ore at PRINCE ARTHUR MINE (late Wheal Betsy) more than paid the cost, and the general opinion is that a little more outlay and patience will bring this mine into a paying position.

BEDFORD UNITED MINE appears to have passed the last call, and the present appearance in the north shaft will almost guarantee a dividend for many years. In the old mine, which is now producing a fair quantity of ore, at the bottom of the north shaft were fathom sunk increases in value. It has every facility for being worked with economy, being well supplied with water, and all the ore carried over the Devon Great Consols Mine at a cheap rate. It may be considered past a speculation, and soon expected to appear in the Dividend List. It is managed by Capt. James Phillips, who shows his confidence in it by being one of the largest sharebolders.

CAMBORNE VEAN.—Capt. Nicholas Clymo says—"We have a large amount of tin ground of a low quality in the mine that has not been worked for some years, as with the low price of the twould not pay to break, but as tin has risen nearly 25t, per ton in value we shall again begin to work it. Our present monthly cost is about 420t., and from the experience of the last three months we have no hesitation in saying that we shall be able to return about 7 tons of tin a month, and we trust that by vigorously sinking the shaft we shall ere long reach the rich tin ground that we believe is below us."

** We last week published a SUPPLEMENTAL SHEET, containing the Title-page and Index to the Thirty-eighth Volume of the Mining Journal.—Temperature of the Earth's Crust, by Mr. Edward Hull—Progress of Copper Mining in Turkey—Mining Dividends during the Year 1868—The Copper Trade, &c.

The Mining Market; Phices of Metals, Ores, &c.

METAL MARKET-LONDON, JAN. 29, 1869.

OOPPER. £ s. d. £ s. d. Best selected.p. ton 82 10 0 - 84 0 0 Tough cake and tile 81 10 0 - 82 0 0 Sheathing & sheets. 85 10 0 - Botts 83 0 0 - I Botts 85 0 0 - 88 0 0 Idd (Exchange). 69 0 0 - 70 0 0 Burra Burra 86 0 0 - Wireper lb. 0 1 0 - 0 1 0½ Tubes 0 0 11½-1 0 BRASS. Per lb. Sheetsper lb. 9d Wire 1, 8½ d8½ d. Tubes 1, 10½d11½d. Tubes 1, 10½d11½d. Yellow Metal Sheath.p. lb. 7½d Sheets , 7d Sheets 1, 10 0 The sheets 10 0 The sheets 10 0 The sheets 10 0 The sheets 10 0	RON
ZINC. En sheets£25 10 0- 26 0 0	in London, p. ton 7 0 0- 7 10 0
English blocks116 0 0	Swed., in kegs(rolled) — —
Do., bars (in barrels)117 0 0	0 (hammered) 15 5 0-15 10 0 Ditto, in faggots16 0 0-
Do., refined	English, spring17 0 0-28 0 0
Straits114 0 0	QUICKSILVER (p. bottle) 6 17 0
TIN-PLATES.* Per box.	LEAD. Per ton.
IC Charcoal, 1st qua. 1 6 6-1 8 6	English Pig.com19 0 0
IX Ditto, 1st quality 1 12 6-1 14 6 IC Ditto, 2d quality. 1 5 6-1 6 6	Ditto, LB
	Ditto, WB21 0 0
IC Coke 1 8 6-1 5 6	Ditto, red lead21 0 0-
IX Ditto 1 9 6- 1 11 6	Ditto, white27 0 0-30 0 0
Canada plates, p.ton 13 10 0	Ditto, patent shot 22 0 0-22 10 6
, Ditto, at works12 10 0	Spanish18 5 0-18 7 0
* At the works, 1s. to	o 1s. 6d, per box less.

REMARKS.—A slight degree of quietude has been manifested in the Metal Market during the past week, resulting in some measure, doubtless from the great interest taken in commercial circles by the examination before the Lord Mayor of the directors of Overend, Gurney, and Co. (Limited), which has caused a considerable degree of excitement amongst all classes of the community, and more especially among business men, and has been the means, to some extent, of retarding the course of improvement which had taken place in the metal trade; and now that they have been committed for trial the excitement will, in a measure, be continued, until the final result, whatever that may be. This interruption, however, is only a temporary affair, and is not by any means calculated to have any permanent effect upon trade, and will pass away with the judgment of the Court. We, therefore, look to see the market again recovering itself, and going forward to renewed activity. The returned mildness of the weather will also tend to prevent that want of vigour which generally follows a severe season. Prices generally remain firm, and there does not appear any disposition on the part of sellers to accept lower rates, and, indeed, in some cases, manufacturers refuse to accept contracts for delivery at distant dates, they fully anticipating that higher prices will rule ere long. As the season becomes more advanced considerable orders from America may be anticipated, and already a very fair trade is being done in of excitement amongst all classes of the community, and more esseason becomes more advanced considerable orders from America may be anticipated, and already a very fair trade is being done in some metals with the United States. Orders from India also have shown some improvement, and it is to be hoped that we shall soon return to the activity which used formerly to characterise our transactions with that portion of the empire. As the Money Market remains easy speculative operations in metals are still greatly faci-litated thereby.

COPPER.—At present the market is rather quiet, and no transac tions of importance have taken place during the week. The standard of ores is however advancing, and at the last sale at Swansea was 41, higher than at the previous sale. Chili bars are now quoted

73l. 10s. to 74l.

IRON.—In Staffordshire orders come in slowly, merchants having bought freely last quarter in anticipation of the possibility of an advance in prices. A few of the principal works are in full operation, but most are not making more than two-thirds time. In Welsh the works are chiefly employed in rail contracts for the United States and the South American markets, and there are also some continental engagements on the books. Fresh contracts for considerable quantities are now under negociation, a fair proportion of which, it is expected, will be secured by Welsh makers. Buyers on home account are not as yet offering heavy contracts. Pig brands of repute command a good sale at current quotations; sellers of both pig and manufactured iron are not disposed to enter into heavy engagements for forward delivery, except at enhanced prices. In 731. 10s. to 741. both pig and manufactured iron are not disposed to enter into heavy engagements for forward delivery, except at enhanced prices. In Swedish iron there is still a good enquiry, and a fair amount of business will ensue as soon as the navigation is open. In Scotch pigiron the market has not been very active during the week, and the amount of business transacted has not been large; the price has rather declined, the last received from Glasgow being 55s. 1½d. cash. LEAD.—Only a moderate business is now doing, but prices have undergone no change, and are still firm at the quotations.

TIN.—The market for Straits has not quite maintained its position, and business has been done at 114t. cash and 114t. 10s. for arrival, at which sellers remain firm. English continues steady at the official rates.

official rates.

SPELTER.—A decidedly better feeling has occurred during the week, and a considerable amount of business has been done, amounting in all to about 1300 tons, at 201. 10s. for parcels on the spot, and 201. 10s. to 212. for delivery in April and May.

TIN-PLATES.—There is a moderate enquiry only, the American spring demands not having yet arrived.

STEEL and QUICKSILVER without alteration.

THE COPPER TRADE.—Messrs. Vivian, Younger, and Bond (Jan 29)
—Transactions in West Coast produce have been very limited, but prices remain about the same as last week. The operations in bars have been limited to 200 tons, to arrive in Liverpool, part at 741.5s., and the remainder at 741.1os. Karjy in the week about 750 tons of ores to arrive were taken off at 15s. per unit, and later 400 tons of regulus, half Liverpool and half Swansea arrival, at 15s. 3d. per unit. The mail from Valparaiso, which has been anticipated via the United States, brings advices that the whole of the 1800 tons of fine copper charvered for during the first fortuight in December is for the United Kingdom, with the exception of a small parcel for Bordeaux, but that none goes to America, as had been currently reported. The market closes steady, without any pressure to buy or sell. English smelters, although orders are few, will not give way at all in price, and would not sell very freely at current quotations. Some small lots of Burra have made 861, and 861.10s. The standard of ores at Swansea advanced 41.10s. over the sale in the month of December. vanced 4l. 10s, over the sale in the month of Dece

wanced 41. 10s, over the sale in the month of December.

Messrs. James and Shakspeare—The Swansea Ticketing went off, at an average of 14s. 10d.; by private contract a few sales of copper and regulus, chiefly to arrive, are reported at 15s. and 15s. 3d. per unit. In bars the transactions have been limited, perhaps 400 tons in all, at 74l, to 75l. per ton, according to brand and prompt. Australian sorts are quiet at a reduction of 10s. per ton, but the quantity on the way to this country is only about one-third of what it was at the same period of 186s. The official rates of English remain unchanged; smelters, however, are open to offers slightly below their full prices. English tin quiet, and some second-hand lots on sale at 1s. below makers' quotations. Foreign is again easier; Straits changed hands down to 113s. per cwt., and as the parcels on the way show a large profit to importers, a somewhat irregular market may be expected whilst the demand continues slack.

COAL MARKET.-The arrivals this week have been extremely mo derate, only 84 ships of all kinds having come forward. The cold weather in the fore part of the week had a favourable effect upon the trade in house coals, and an advance of 6d. per ton was realised;

Framwellgate Wallsend, 15s. 9d.; Kelloe Wallsend, 16s. 3d.; West Hartley, 15s. Unsold, 1 cargo: 150 ships at sea.

A pressure of sales in the MINING SHARE MARKET, consequent in a great measure on the settlement of the fortnighly account, which was heavy in speculative transactions, has made the market very dull this week, and prices in many instances have given way considerably. This downward tendency has also been accelerated by unfavourable rumours respecting a prominent mine, and circulated, as it is believed, chiefly for market operations. The shares mostly dealt in have been New Lovell, West Chiverton, Wheal Chiverton, Chiverton Moor, Marke Valley, Great North Laxey, Tincroft, Prince of Wales, West Frances, Seton, West Seton, Gonamena, Great Laxey, East Caralon, Don Pedro, Providence Mines, and a few others. The standard for copper ore shows no change this week. West Chiverton shares have been knocked down—for scarcely any other term can be used—to 52, and leave off 54 to 56. The bottom level, it is said, is not looking so well, but it is not yet up to the rich ore ground in the 110, and a winze, 5 fathoms ahead of the 120 fm. level end, has been sunk in a splendid course of ore: and as the winze is now full of water.

be used—to 52, and leave off 54 to 56. The bottom level, it is said, is not looking so well, but it is not yet up to the rich ore ground in the 110, and a winze, 5 fathoms ahead of the 120 fm. level end, has been sunk in a splendid course of ore; and as the winze is now full of water, it is clear that this part of the lode has not yet been cut in the 120, Around Batters' shaft, which is the great point of the mine, the prospets are said to be better than ever. The dividend at the meeting next month will be 2L, per share. In reference to the fall in shares, a letter from the manager has been circulated among the shareholders, in which he states, "The mine continues to look well, and he sees no reason for the drop." Cook's Kitchen, 12 to 13; Drake Walls, 18s. to 20s.; Don Pedro, \$\frac{1}{2}\$, to \$\frac{1}{2}\$, to \$\frac{1}{2}\$, to \$\frac{1}{2}\$, to \$\frac{1}{2}\$, by \$\frac{1}{2}\$, it is the meeting a dividend of 10s. per share was declared. New Lovell shares, after declining to \$\frac{1}{2}\$, 2\frac{1}{2}\$, have again risen to \$\frac{1}{2}\$, \$\frac{1}{2}\$, south Caradon, \$\frac{1}{2}\$, 0 to 350; at the meeting, held on Tuesday, the accounts showed a profit of 2579L on the two months, and a dividend of 5L per share (2560L) was declared, leaving 2820L 14s. 4d. in hand. The report states that the prospects of the mine continue good, and such as will enable the present rate of dividends to be kept up. Capt. Peter Clymo, who has been manager more than 20 years, has been compelled, through ill-health, to resign his post; and everyone acquainted with him and his management of the mine will heartily concur in the remarks of the purser that "he had given it a prominence for management and success most beneficial to the interests of the company, and fully recognised by all who have desired to see mining conducted upon sound principles." It is now about 33 years ago that the Messrs. Clymo obtained the set of South Caradon, and we perfectly remember Capt. James coming to London, in 1837, we think, to dispose of a part of it

level, and, consequently, there is no change. Great Wheal Vor, 11 to 11½; Herodsfoot, 43 to 45; Marke Valley, 9½ to 9½; New Seton, 70 to 75; North Crofty, 23s. to 26s.; Taquaril, 13s. to 15s.; General Brazilian, 9s. to 11s.; Penhalls, 5 to 5½; Great Western, 2½ to 2½; North Treskerby, 17s. 6d. to 20s.; Providence Mines, 34 to 36; South Condurrow, 15s. to 17s. 6d.; South Herodsfoot, 15s. to 20s.; St. Ives Consols, 11 to 13. Feat Graville, 34. to 34. the Ide in the 110 care Condurrow, 15s. to 17s. 6d.; South Herodsfoot, 15s. to 20s.; St. Ives Consols, 11 to 13. East Grenville, 3½ to 3½; the lode in the 110 east is 18 in. wide, containing good stones of copper ore; the rise above this level is worth 15l. to 20l. per fathom; the 55 east is worth 2½ tons of copper ore. Gonamena shares have advanced to 20s., 25s.; the mine has considerably improved. Tincroft, 16½ to 17½: Trumpet Consols, 17 to 18; West Frances, 38 to 40; West Great Work, 2½ to 3; West Seton, 205 to 215; Wheal Chiverton, 1½ to 2½; Wheal Grenville, 30s. to 32s. 6d.; Wheal Kitty (St. Agnes), 4 to 4½; Wheal Mary Ann, 21½ to 22½; Wheal Seton, 80 to 85. Chontales shares have been very flat, and leave off 17s. 6d. to 22s. 6d.; Mr. Belt's report, preparatory to the meeting on Feb. 2, has been issued, and he explains the causes which led to the failure of his estimates made in September last—that poor bars of ground were met with in the main adit levels, causes which led to the failure of his estimates made in September last—that poor bars of ground were met with in the main adit levels, and, consequently, there was a falling off in the yield of gold. He considers, however, for various reasons (which would take up too much of our space to enter upon fully), that perseverance will ultimately lead to success; but to complete the explorations in progress, and to bring the mines into good working order, will require a further sum of 10,000l. The machinery now erected is sufficient for the reduction of 2000 tons of ore per month. The mines are opened to supply that quantity, and the tramways completed to take it to the reduction works. The works of construction, therefore, having been completed, the expenditure at the mines can be reduced to 1500l. per month, while 2000 tons of ore, yielding only 5½ dwts. per ton, will cover it; and as the main levels, &c., open out fresh supplies, the returns will increase. Yudanamutana, 2 to 2½; Wheal Uny, 3½ to 3½.

The Market for Mine Shares on the Stock Exchange has been well supported during the week; prices have not materially altered from previous quotations, and there has been a total absence of excitement. Brazilian descriptions continue in favour, and British mines have commanded a fair share of attention. West Chiverton shares would appear to have been unduly pushed down, and the efforts of adverse operators to influence prices has called forth a circular from the purser, accompanied with a letter from the captain, from which it appears the fall is not justified by any change in the mine: 40s. will be paid next month—the usual dividend. Shares have rallied from the lowest point, and close 54 to 56. Great Laxey shares have been in demand, and close 19\frac{3}{2}\tau to 50. Great Wheal Vor shares are 10\frac{3}{2}\tau to 11\frac{1}{2}\tau Prince of Wales, 23s. to 25s. East Caradon shares are in good demand, at 9\frac{1}{2}\tau to 9\frac{3}{2}\tau and Marke Valley at 9\frac{1}{2}\tau to 9\frac{1}{2}\tau ex div. Glan Alun, 12s. 6d. to 13s. 6d.; the water is out of the mine, and important results are looked for at an early date. In foreign descriptions, Don Pedro shares have been firm, at 3\frac{3}{2}\tau to 3\frac{1}{2}\tau prem. Taquaril, 5s. 6d. to 6s. 6d., and largely dealt in. Important news is expected from this mine by the next Brazilian mail. St. John del Rey shares are unaltered, and dull at 15\frac{1}{2}\tau to 16\frac{1}{2}\tau Anglo-Argentine, \frac{1}{2}\tau \frac{3}{2}\tau prem. previous quotations, and there has been a total absence of excitefrom this mine by the next Brazilian mail. St. John del Rey shares are unaltered, and dull at 15½ to 16½. Anglo-Argentine, ½ to ½ prem.; Anglo-Brazilian, par to 1-16th prem. Rossa Grande, 9-16ths to 11-16ths prem., and in demand. Sao Vicente steady, at ½ to ½ prim.; Yudanamutana, 1½ to 2. Port Phillip, 1½ to 2, and firm at quotations. Frontino and Bolivia, 7s. to 9s. General Brazilian shares are well maintained, at 3s. 6d. to 4s. 6d. prem. Pestarena, 1½ to 1½. Chontales shares have fallen to 20s., 22s. 6d. per share.

The PERDU CARTA LEAD MINING COMPANY, with a capital of 30,000%, in shares of 10% each, has issued its prospectus. The p perty is situated in the Island of Sardinia, about eight miles fr perty is situated in the Island or Sarainia, about eight lines from Iglesias, and 20 miles from the port of shipment. The geological formation is limestone and killas, and consists of several lodes or veins of lead and zinc ore, which have been more or less opened—the mines already yield a profit, although worked under adverse circumbut on the return of mild weather to-day the tone of business was less active, but prices were supported, and a clearance effected. Hartley's have ruled dull at a decline of 6d. Hetton Wallsend, 18s, 6d.; Haswell Wallsend, 18s, 3d.; Stewart's Wallsend, 17s, 9d.; dividend-paying lead mines;" and by Mr. J. L. Barker, who consisiders it will prove a lasting and immensely profitable undertaking

At the Swansea Ticketing, on Tuesday, 1245 tons of ore were sold, realising 16,2611. 14s. 0d. The particulars of the sale were—Average standard for 9 per cent. produce, 951. 16s. 6d.; average produce, 17\frac{1}{2}; average price per ton, 13l. 1s. 2d.; quantity of fine copper, 219 tons 9 cwts. The following are the particulars of the two last sales:—

Date. Tons. Standard. Produce Priceper ton. Per unit. Ore copper. Dec. 8. 1896 . £91 6 6 £11 1 7 . . . 138.104 . £69 5 0 Jan. 26. 1245 . . . 25 16 6 . . . 1756 13 1 2 . . . 14 10 . . 74 2 0 Compared with the last sale, the advance has been in the standard 41. 10s., and in the price per ton of ore about 16s. There will be no sale on Feb. 16.

sale on Feb. 16.

At Redruth Ticketing, on Thursday, 2341 tons of ore were sold, realising 12,039\(ldot\). 12s. 6d. The particulars of the sale were:—Average standard, 103\(ldot\). 9s.; average produce, 7\(ldot\); average price per ton, 5\(ldot\). 3s.; quantity of fine copper, 178 tons 12 cwts. The following are the particulars of the sales during the past month:—

Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper. Dec. 24 . 1703 ... \(ldot\). 8 98 16 0 ... 8 ... \(ldot\). 8 ... \(ldot\). 25 2 0 ... \(ldot\). 12s. 10d. ... \(ldot\). \(ldot\). 644 4 0 ... \(ldot\). 31 ... \(ldot\). 438 ... \(ldot\). 105 0 ... \(ldot\). 34 ... \(ldot\). 65 9 6 \(ldot\). 31 ... \(ldot\). 65 9 6 \(ldot\). 31 ... \(ldot\). 65 9 6 \(ldot\). 32 ... \(ldot\). 322 ... \(ldot\). 108 13 0 ... \(ldot\). 644 4 1 6 ... \(ldot\). 12 7 ... \(ldot\). 627 8 6 ... \(ldot\). 3241 ... \(ldot\). 103 9 0 ... \(ldot\). 758 ... \(ldot\). 5 3 0 ... \(ldot\). 13 6 6 7 8 6 ... \(ldot\). 3241 ... \(ldot\). 103 9 0 ... \(ldot\). 758 ... \(ldot\). 5 3 0 ... \(ldot\). 13 6 6 67 8 6 ... \(ldot\). 678 6 ... \(ldot\). 340 ... \(ldot\). 678 6 ... \(ldot\). 340 ... \(ldot\). 341 ... \(ldot\). 340 ... \(ldo

Compared with last week's sale, the standard is about stationary. Compared with the corresponding sale of last month, the advance has been in the standard 30s., and in the price per ton of ore about 2s. 3d.

The following dividends have been declared during January :-

Total£23,689 0 0 At South Caradon Mine meeting, on Tuesday (Mr. Thos. Kittow in the chair), the accounts for September and October showed a credit ball of 5880! Als. 4d. The profit on the two months' working was 2579! 4s. 2d. A dividend of 2560! (5l. per share) was declared, and 2820! 14s. 4d. carried to the credit of next account. Captain Clymo's resignation, through ill health, as active manager, was accepted with regret, and he was appointed honorary manager, the future active management being vested in Capts. Rule and Holman. The report of these gentlemen stated that there had been an improvement in the bottom of the old sump-shaft. The bunch of ore in the level above, to the west of the shaft, has been met with sooner than expected, showing that it is lengthening eastward.

At the Levant Mine meeting, on Wednesday, a dividend of 6601

At the Cargoll Mine meeting, on Jan. 21, the accounts showed a credit balance of 6571. 5s. 10d. Capts. John Grose and Robert Tyzzer say—" We have sold 80 tons of lead ore, realising 1370t., which is for the credit of the next account, and in addition to which we shall have about 70 tons more, and the usual quantity of blende." A dividend of 10s. per share was declared.

usual quantity of blende." A dividend of 10s, per share was declared.

At East Wheal Lovell meeting, on Tuesday (Mr. H. Rogers in the chair), the accounts for the eight months ending September showed a credit balance of 10374, 6s, 2d. A dividend of 9534, (10s, per share) was declared, and 844, 6s, 2d, carried to credit of next account. Captains Quentrall and Peters reported upon the various points of operation. Their labour cost and merchants' bills for the next four months will be about 10001, and should the lodes and the price of tin continue as at present they expect to show upwards of 10001, profit at the account to be held in May.

At the East Wheal Russell meeting, yesterday (Mr. Milford in the chair), the accounts showed a balance of liabilities over assets of 1681 4s, 10d. A call of 3s, 6d, per share was made. The offer to work the mine on tribute above the 100 fm. level was discussed, and it was resolved that it could not be entertained in its present shape, owing to the risk and liability it would entail upon the company.

At the North Downs Mining Company general meeting, on Monday

upon the company.

At the North Downs Mining Company general meeting, on Monday (Mr. H. Milford in the chair), the accounts show a debit balance of 6881. 148. 6d. The meeting was adjourned to Feb. 16, when it will be made special to consider certain resolutions as to the unissued shares. Details in another column.

At the West Basset Mine meeting, on Wednesday, the accounts showed—Balance from last meeting, 1581. 10s. 7d.; copper ores sold, 9631. 8s. 2d.; it neres sold, 16631. 6s. 2d.; stores sold, 19s. 8d.; advance on tribute, 1301.; calls received, 2131. 15s. 3d. 2d. 2s. 15s. 7d. Cost for October and November, 22331. 11s. 11d.; bankers' interest and commission, 17t. 9s. 11d.; sundries, 253. 1s. 3d.; balancers' interest and commission, 17t. 9s. 11d.; sundries, 25t. 1s. 3d.; balancers' interest and commission, 17t. 9s. 11d.; sundries, 25t. 1s. 3d.; balancer interest and commission, 17t. 9s. 11d.; sundries, 25t. 1s. 3d.; balancer interest and commission, 17t. 9s. 11d.; sundries, 25t. 1s. 3d.; balance the last meeting, although their appearance at the several points of operation is very promising; our tin lodes, on the other hand, continue to open up most anti-sfactorily, and a considerable extent of profitable ground has been explored in the various levels and winzes in the past two months. Operations at our new team stamps were commenced about a month since, and both stamps and tindressing appliances, as far as completed, are working satisfactorily; but, owing to the unavoidable delay in getting machinery of this kind into thorough working order, we have not yet been in a position to add anything to our returns from this source. We hope, however, to be enabled in the ensuing two months os show a substantial increase in our sales of black tin."

At the South Carn Brea Mine meeting, on Jan. 22, Messrs. F. M. Williams, and C., bankers of the company; Messrs, Geo. A and Thos. Michell, doctors of the mine; and Messrs. John Hocking and Son, engineers of the company. The shares (3690) were allotted, subject to the rul

At the Pestarena United Gold Mining Company meeting, on Wednesday, the resolutions passed at an extraordinary general meeting, held on Jan. 13, were confirmed.

Jan. 13, were confirmed.

The Bank of England return for the week ending on Wednesday evening showed in the Issue Deparment an increase in the "notes issued" of 153,3151., which is represented by a corresponding increase in the coin and ballion on the other side of the account. In the Bankins Department there was shown a decrease in the "public deposits" of 186,6471.; and in the "other deposits" of 217,3501.; together, 404,5571.; an increase in the "seven day and other bills" of 23,3711., and in the "ret" of 82921.; together, 31,6631.=372,9344., and deducting this from 359,7091.; the decrease (800,0001. in the "public securities," and 159,7091. in the "other securities") on the other side of the account, showing an increase in the total reserve of 886,7751.

The Great Western Mines are opening out well, and operations are being vigorously carried on in connection with the new engine-shaft,&co.

DYNAMITE.—Some successful experiments have lately been made with this material at a quarry at Oester Acker, in Norway. Three shots were fired—the second, and principal one, being on a very large scale. The bore-hole was 21 ft. deep, and 1½ in. dlameter; 15 lbs. of the strongest dynamite, containing 75 per cent. of nitro-glycerine, being employed as the barge. It was estimated that about 264 cubic yards of earth were displaced, but it was not considered that the whole power of the charge had been utilised, and another charge of only 2½ lbs. of dynamite produced a proportionably still greater result. On the whole, the experiments were regarded as extremely satisfactory, and as proving that dynamite is decidedly cheaper than gunpowder for blasting purposes.

GOLD IN NATAL.—The following particulars have been furnished of an assay of gold from Natal:—Assay of two samples of gold-dust received by the undersigned by the ship Actea, from Port Natal, forwarded by Mr. F. W. Keaf, of Potsuffstrom, through Messrs. A. W. Evans and Co., of Durban, from the Tatin gold diggings. One bottle, 15 ozs., found to contain per ton of 20 cwts. Is ozs. 10 dwts. of gold, and 2 ozs. 10 dwts. of sliver; one bottle, 150 grs., found o contain per cwt. 66-92 of fine gold, and 3-90 of fine sliver. About 5 cwts. of re not found to contain either gold or sliver.—MAYNARD BROTHERS AND CO.

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TO COMPANIES, AND OTHERS, WISHING TO REDUCE THEIR EXPENDITURE.—A CITY FIRM OF POSITION, having commodious offices, is PREPARED to make LIBERAL ARRANGEMENTS, combining SECRETARIAL DUTIES. Cierks' services and all office expenses under one fixed annual charge; or to CONDUCT the LONDON BUSINESS of Foreign or Country Firms. or Country Firms.
Applications, in confidence, to Roberts and Thorne, No. 82, Gracechurch-street, E.C.

TO CAPITALISTS—PARTNER OR PARTNERS—WELSH STEAM COAL.—The owner of a valuable COLLIERY, situate near CARDIFF, and commanding an area of about 1600 acres of the celebrated Welsh Steam and Coking Coals (II workable seams in the basin), desires a moderate amount of CAPITAL to EXTEND OPERATIONS already commenced on the property, or the COLLIERY WILL BE SOLD to an eligible party or company by private contract.

Address, "A. B., Superintendent, Bartholomew House, City, London.

THE ADVERTISERS (who are short of capital) are OPEN to TREAT for the DISPOSAL of a PART, or the WHOLE of a valuable LEAD MINE, in a celebrated mining district, where first-claes machinery for crushing and dressing the ores has been erected, and the mine put in thorough working order. The ground can all be worked above level, and the vein at present, at a depth of 18 fathoms, is yielding 1 ton of lead per fathom, and has already been proved very productive at many different points. To capitalists, or promoters of public companies, this is an opportunity rarely to be met with in mining enterprises.

Address, "Box 150," Mining Journal Office, 26, Fleet-street, London.

THE ADVERTISER, who has had many years' practical experience in the ANALYTICAL TREATMENT of ORES, especially ZINC, is THO-ROUGHLY VERSED in CHEMICAL ANALYSIS, and has also been engaged in the ACTIVE MANAGEMENT of SMELTING WORKS, DESIRES a RE-ENGAGEMENT. The highest references.

Apply, by letter, to "M. and Co.," care of J. B. Davies, Esq., Neath, Glamorganshire.

TO CONTRACTORS AND ENGINEERS, &c.

DUSSIAN RAILWAYS.—An Englishman, lately of St. Petersburg, acquainted with RUSSIAN RAILWAY BUSINESS and other branches, and KNOWING the LANGUAGE, WISHES to ENGAGE with a FIRM DESIROUS of ESTABLISHING a RUSSIAN CONNECTION. Address—"A. Z.," 82, Farleigh Road, West Hackney, London.

SILVER-LEAD MINE.—A FIFTH SHARE FOR SALE of ONE of the most PROMISING SILVER-LEAD MINES in the KING-DOM. Price, \$2000. The above FIFTH could be purchased by one or more. None need apply who do not embark for investment.

For full particulars, and engineers' reports, address—"O. P.," Messrs. Lee and Nightingale, 16, Castle-street, Liverpool.

MPORTANT MINING PROPERTY FOR SALE IN RHENISH

MPORTANT MINING PROPERTY FOR SALE IN RHENISH
PRUSSIA.—A BLENDE MINE, giving 3 to 4 tons of blende per fathom; a
COPPER MINE, averaging 14 per cent. of copper; and THREE LEAD MINES,
with 65 per cent. of lead.
Apply for particulars, to O. J. YOUNGHUSBAND, Esq., Wiehl, Kreis Gummersbach, near Cologne, Prussia.

FOR SALE, — THE "MINING JOURNAL," from 16th April, 1864, to 26th December, 1868, complete, and in good condition. No reasonable ofter refused.

Apply to "J. T.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

RNGINES FOR SALE.

OR SALE, ONE 54 in. cylinder PUMPING ENGINE, 9 feet stroke, equal beam, with or without TWO 12 ton BOILERS. Also ONE 36 in. PUMPING ENGINE, 9 ft. stroke, with or without a 10 ton BOILER. With an addition of ONE 8 ton BOILER also FOR SALE. To be sold chean.

old cheap.

Apply to Michell and Jenkin, Engineers, Redruth. ON SALE,—An EXCELLENT SLATE QUARRY, called the WAUNFAWR SLATE QUARRY, situated near HARLECH, NORTH WALES. The slates are similar in quality, colour, grain, and durability to the Festiniog slates.

For particulars, apply to Mr. WALTER DAVIES, Bethania, Festiniog, North Wales.

O LET, A VALUABLE COAL MINE.— Apply to Mr. George DAVIDSON, Mawley, Cleobury Mortimer, Shrop-Dec. 12, 1868.

TO LET,—A COAL FIELD in the EASTERN DIVISION of the COUNTY of DURHAM, containing about ONE THOUSAND ACRES of UNWROUGHT COAL, adjacent to a current-going colliery in that district. For further particulars, apply to "G. G. S.," Post Office, Sunderland. Bridge Village, Durham.

LANTWIT MAIN COLLIERY COMPANY (LIMITED).—

LANTWIT MAIN COLLIERY COMPANY (LIMITED).—

LANTWIT MAIN COLLIERY COMPANY (LIMITED).—

COLL COMPANY (LIMITED) having appeared in the Gazette of the 19th inst., Notice is hereby given, that such COMPANY has NO CONNECTION WHATEVER with the LLANTWIT MAIN COLLIERY COMPANY (LIMITED), and that such resolution or notice does not in any way apply to such last-named company.

By order of the Directors,

WM. P. BELLISS, Secretary.

6, Martin's-lane, Cannon-street, 26th January, 1869.

REAT NORTHERN COPPER MINING COMPANY OF SOUTH AUSTRALIA (LIMITED).—Notice is hereby given that an EXTRAODINARY GENERAL MEETING of the shareholders of the Great Northern Copper Mining Company of South Australia (Limited) will be HELD at the London Tavern, Bishopsgate-street, London, on MONDAY, the 8th day of February, 1869, at Two o'clock P.M.

THE GREAT NORTHERN MANGANESE COMPANY (LIMITED).

NEAR BALA, MERIONETHSHIRE, NORTH WALES. Capital £15,000, in 3000 shares of £5 each.

RICHARD ROBERTS, Esq., Bala, Director of the Bala Banking Company, Sir EUSTACE FITZMAURICE PIRES, Bart., Manchester.
H. SOUTHAM, Esq., Merchant, Manchester and Bala.
THE BALA BANKING COMPANY (LIMITED), BALA.

AGENT AND SECRETARY AT MANCHESTER-MR. J. K. WILLIAMS. CHIEF OFFICES,-12, PARSONAGE, MANCHESTER.

Prospectuses and applications for shares may be made to the manager of the ala Banking Company (Limited), Bala; or to the secretary, at the company's flees, in Manchester.

SOUTH MERLLYN MINE COMPANY.

Mr. E. J. Bartlett will be happy to forward upon application all particulars concerning this valuable property, which is situated in the centre of the Flintshire mining district, and surrounded by mines that have been and are making large profits.

Address, 30, Great St. Helen's, London, E.C.

** A few shares for disposal.

CWM DWYFOR (NORTH WALES) COPPER AND

SILVER-LEAD MINES COMPANY (LIMITED). INCORPORATED UNDER THE COMPANIES ACTS, 1862 AND 1867.

Capital £12,500, in 12,500 shares of £1 each, Fully paid-up on allotment.

BANKERS.
METROPOLITAN BANK (LIMITED), LONDON.
SECRETARY—Mr. G. CHAMBERS.

ST. CLEMENT'S HOUSE, ST. CLEMENT'S LANE, LONDON, E.C.

Applications for shares in this remarkable mine, for prospectuses, and forms and notices of the mine, its geological and mineral character, and extraordinary plysical advantages, may be addressed to the secretary, at the offices of the company, where also specimens of the ores can be seen.

Contract for Coals and Coke.

CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE. THE COMMISSIONERS for Executing the Office of Lord High Admiral of the United Kingdom of Great Britain and Ireland, do hereby give no. Two o'clock, they will be READY to TREAT with such persons as may be WILLING to CONTRACT for SUPPLYING and DELIVERING at the Extension Works, at H. M. Dockyard at Chatham,

EIGHT THOUSAND FIVE HUNDRED TONS OF COALS, AND ONE THOUSAND TONS OF COKE, FOR BRICKMAKING PURPOSES, And THREE THOUSAND FIVE HUNDRED TONS OF COALS

FOR STEAM ENGINES.

FOR STEAM ENGINES.

Tenders may be made for the supply of all or either of the above quantities. Forms of the tenders and conditions of contract may be seen in the lobby of the Storekeeper-General's Department, Admiralty, Somerset House. No tender will be received after two o'clock on the day of treaty, nor will any be noticed unless the party attends, or an agent for him duly authorised in writing. Every tender must be addressed to the secretary of the Admiralty, and bear in the left-hand corner the words "Tender for Coals and Coke," and must also be delivered at the Department of the Storekeeper-General, Admiralty, Somerset House, accompanied by a letter signed by two responsible persons, engaging to become bound with the person tendering in the sum of £20 per 100 tens for the due performance of the contract. By order, tons for the due performance of the contract. Registrar of Contracts and Public Securities, Contract Department, Admiralty, Somerset House, Jan. 20, 1869.

Contract for Bolt and Sheet Copper.

BY ORDER OF THE SECRETARY OF STATE FOR INDIA IN COUNCIL.

NOTICE IS HEREBY GIVEN that the DIRECTOR-GENERAL OF STORES FOR INDIA, will be READY, on or before Monday, the list of February next, to RECEIVE PROPOSALS in writing, sealed up, from such persons as may be willing to SUPPLY.

BOLT AND SHEET COPPER,
And that the conditions of the said contract may be had on application, addressed to the Director-General of Stores, India Office, Westminster, S.W., where
the proposals are to be left any time before Two o'clock F.M. of the said ist day
of February, 1869, after which hour no tender will be received,
India Office, Jan. 29, 1869. GERALD C. TALBOT, Director-General.

LEAD ORES. tate. Mines. Tons. Price per ton. n. 22—Great Laxey. 100 £22 8 0 Burry Port Company. 25—East Logylas 40 11 10 6 Runcorn Smelting Co.—Glogfach 30 17 8 0 Sims, Willyams, & Co.—Cwmystwith. 50 12 1 0 Walker, Parker, & Co. 28—Powell United. 15 11 13 0 Burry Port Company.

BLACK TIN.

 Date.
 Mine.
 Ts. c. q. lbs. Price p. ton.
 Amount.
 Purchasers

 Jan. 21—Pedn-an-drea.
 10 8 3 6 ...
 6.9
 4 6

 23—Wheal Uny.
 10 8 0 27 ... £65 13 4 ...
 683 14 5

 27—North Roskear
 1 16 2 3 ...
 1 120 19 10-Mellanear.

 Purchasers.

COPPER ORES. Sampled Jan. 6, and sold at Swansea Jan. 26.

Mines.						Mines. Tons. Produce. Pri	ce.
Cape	. 62	 30%	£22	14	6	Ballycummisk 66 914 £6 1	7 0
ditto	. 42	 26	. 19	5	0	ditto 8 918 6	8 0
ditto	. 50	 3434	. 25	9	6	Bradda 65 1158 8 1	
ditto	. 48	 35	. 25	10	6	Spanish 58 6 8 4	5 6
ditto	. 49	 363/8	. 27	10	6	ditto 6 434 3	1 6
ditto	. 48	 363/4	. 27	4	6	Azambugeira 28 2838 23	9 0
ditto	. 53	 291/2	. 21	15	6	ditto 19 29% 21	9 0
ditto	. 5	 1834	. 13	16	0	ditto 1 1634 12	9 0
ditto					6	Lisbon 24 2414 17	7 6
ditto	. 5	 3144	. 23	0	0	ditto 5 2234 15 1	6 0
Berehaven .	. 84	 91/4	. 6	14	0	ditto 2 2814 20	
ditto	. 78	 912	. 6	14	0	Copper Reg., 22 934 6 1	0 0
ditto	. 74	 914	. 6	14	0	ditto 11 40% 29	4 0
ditto				10	6	ditto 9 6218 45 1	
Slag				0	0	Copper Ore 3 8 5 1	
Paramatta.				0	6	Pomona 2 411/8 30 1	1 0
ditto				16	0	Concordia 3 33 8 26	4 0
ditto				10	0	Precipitate 1 63 47	5 0
ditto					0		

		TO	TA	L F	RODUCE.					
Cape	370	 £8897	0	0	Lisbon	31	£	536	0	0
Beichaven	304	 2024	18	0	Copper Regulus	42		877	6	0
Slag	144		0	0	Copper Ore	3		16	10	0
Paramatta	92	 1147	13	6	Pomona	2		61	2	0
Ballycummisk	74	 502	10	0	Concordia	3		78	12	0
Bradda	65	 580		6	Precipitate	1		47	5	0
Spanish	64	 266	8	0	Sweepings	2		15	18	0
Agambugatea	49							-	-	

COMPANIES BY WHOM THE ORES WERE PURCHASED:-| COMPANIES BY WHOM THE ORES WERE PURCHASED:—Names. Tons. Amount.
| Copper Miners' Company 97 £1127 11 6
| Freeman and Co. 104 1932 2 6
| P. Grenfell and Sons 3 70 10 0
| Sims, Willyams, and Co. 92 1243 12 0
| Vivian and Sons 544 1663 16 0
| Williams, Foster, and Co. 305 4561 10 6
| Williams, Foster, and Co. 305 4561 10 6
| Macon and Elkington 113 2233 2 6
| Bankart and Sons 83 1589 10 6
| Sweetland, Tuttle, and Co. 84 1839 18 6

TOTALS AND AVERAGES.
21 cwts. Produce. Price. Standard.
Whole sale 1245 17% £13 1 2 £95 16 6 COPPER ORES. Sampled Jan. 13, and sold at Tabb's Hotel, Redruth, Jan. 28,

Mines		ons.		ice.		Mines.	Ton			ice	
	nalgamated	113	£5	1	6	Glasgow Caradon	60		£3	1	
ditto	********	70	7	0	6	ditto				14	
ditto				9	0	Poldice	. 70		2	4	
ditto	*********	62	1	10	6	ditto				12	
ditto	*********	61	3	17	0	ditto	. 58		6	13	
ditto	********	58	2	9	0	ditto				1	
ditto	*********	56	1	15	6	Phœnix	. 74		3	17	
ditto	********			0	0	ditto	. 70		4	6	
ditto	********			17	0	ditto				2	
ditto		22	4	19	0	North Treskerby	. 70		5	2	
ditto	********	19	3	2	6	ditto	. 50		5	4	
	adon			17	6	ditto	. 44		4	14	
ditto	********	74	6	6	6	Craddock Moor	45		4	17	
ditto	********	69	5	8	0	ditto	40		5	2	
ditto	*******			14	6	West Caradon	. 47		4	3	
ditto	*********			16	6	ditto	. 85		6	1	
ditto	********	52	10	2	6	Wheal Rose	43		4	3	
ditto	********			5	0	ditto	. 32		3	12	
ditto	********	49	10	1	6	New Treleigh	. 45		3	11	
ditto	*********			1	0	ditto	. 12		2	6	
lasgow (Caradon	87	4	7	0	Tywarnhaile	. 19		3	8	
ditto	*********	80	4	11	0			-	-	-	

l			TO	[A]	4 1	RODUCE.					
١	Clifford Amalgam	604	 £2283	0	0	Craddock Moor	85	£	423	7	
ı	South Caradon	532	 4384	13	0	West Caradon	82		406	16	-
	Glasgow Caradon	285	 1143	0	0	Wheal Rose	75		295	10	-
	Poldice	246	 1066	5	6	New Treleigh	57		188	9	6
	Phœnix	199	 979	10	6	Tywarnhaile	12		41	2	0
ŀ	North Treskerby	164	 827	18	0						

COMPANIES BY WHOM THE ORES				
Names.	Tons.	Am	oun	t.
Vivian and Sons	299	 . £2267	16	0
Freeman and Co	116	 . 626	14	- 6
Grenfell and Sons	419	 2898	11	6
Sims, Willyams, and Co		 . 1113	7	6
Williams, Foster, and Co		 . 1485	12	0
Mason and Elkington			18	9
Bankart and Sons			3	3
Copper Miners' Company			9	0
Sweetland, Tuttle, and Co		 . 770	0	0
				-
Total	2341	 £12,039	12	6

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday next—Mines parcels.—Wheal Seton (Pendarves) 708—West Seton 573—South Crofty: Wheal Basset 270—West Tolgus 213—East Grenville 165—East Pool 139—Basset 38—Dolcoath 30.—Total, 2462 tons.

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday week.—Mines and parcels.—Crenver and Abraham 452—Carn Brea 309—ParConsols 187—East Carn Brea 185—North Downs 110—Prosper United 108—Emily Henrietta 108—Botallack 49—Levant 47—Bouth Polmear 25—West Tremayne 23—North Pool 14—Troyenen 7—Rosewarne Consols 6—Great Crinnis 2.—Total, 1829 tons.

LARGE AMOUNT of MONEY being EXPENDED in ADVERTISING in WORTHLESS PUBLICATIONS, C. H. MAY will be HAPPY to AFFORD INFORMATION to ADVERTISERS in the SELECTION of the BEST and OST INFLUENTIAL.

C. H. MAY'S GENERAL ADVERTISING OFFICES.

ESTABLISHED 1846. DVERTISEMENTS inserted in all the London Provincial, Foreign, and Colonial Newspapers. 78, GRACECHURCH STREET, CITY, E.C.

Actices to Connesyondents.

Much inconvenience having arisen in consequence of several of the Number luring the past year being out of print, we recommend that the Journal shouls to fited on receipt: it then forms an accumulating useful work of reference.

Liquin Fuel.—It is my intention to have a small steam pleasure-boat constructed; she will be built by one of the most eminent builders in Great Britain, and will be about 14 feet long. My object in troubling you is to enquire if mineral oil could be adopted as fuel for her. I have seen some accounts on the subject in the *Mining Journal* which have prompted my enquiry. Of course, my engine will be very small, as I intend that the boat shall be manageable by one man. I should also like to know if mineral oil or creosste is explosive or not; how much in quantity a boat of the above description would consume per day of twelve hours; whether the oil is expensive or not; and what the price is per galion? In conclusion, i should like to be directed to some firm who have tried the oil, or to any book or pamphlet on the subject.—VAPEUR.

DRAKE WALLS MINE, AND ITS MANAGEMENT.—In the Notice to Correspondents

Who have tried the oil, or to any book or pamphiet on the subject.—YAPEUR.

DRAKE WALLS MINE, AND ITS MANAGEMENT.—In the Notice to Correspondente last week, "A Shareholder" seems to be surprised at the heavy call made at the last meeting, but this would not surprise him if he were to visit the mine, and examine for himself into the state of affairs. It seems but too plain to me that, unless some alteration is made, there will be a much heavier call in eighteen months from this time. The mine, at the present price of tin, ought to make good profits, and I believe can be made to do so with proper management.—A LOOKER-ON: Calstock, Jan. 28.

Scale for Advertisements.—To avoid the necessity of frequent application we may state our charge for general advertisements is—for six lines an under, 4s.; per line afterwards, 8d. Average, twelve words per line.

THE MINING JOURNAL Bailway and Commengial Gazette.

LONDON, JANUARY 30, 1869.

EXPLOSIONS OF COLLIERY BOILERS.

Alike in the Derbyshire, South Yorkshire, and South Staffordshire coal fields, there have recently been accidents to boilers, and lives sacrificed. The more serious accident was that which happened on the 14th inst, at the Timber Field Colliery, near Clay Cross, belonging to Mr. Thomas Holdsworth, who is the owner of much colliery property at Clay Cross and Pilsley. Four deaths resulted, and one of the deceased was the son of the proprietor. The boiler collapsed from shortness of water and over-heating. It was of the ordinary one-flue internal furnace kind, 26½ ft. by 6 ft., and the flue 3 ft. 2½ in., made of ½-in. pla2c. Fhere were two lever safety-valves, 3 in. diameter, which weighted as they were would blow off at about 45 lbs. There were three gauge cooks at the front, but only one was in working order, and the other two had evidently not been used for some time. There had been a glass tube water-gauge, but this also had not been lately used, for only the bottom part of itremained. There was an ordinary one on the top of the boiler, with its wire passing through a gland and stuffing-box. The pressure gauge and other fittings were in good order. The point of the collapse was that at the second and third plates of the furnace crown. There the fracture commenced at a patch on the third plate, went through the line of rivets, and extended through the solid plate parallel with the ring-seam. The iron was of fair average quality, and was 5-16ths thick. A distinct water line upon each side of the flue where it had collapsed showed that at the time of the explosion the water had been about 9½ inches below the level of the four of the flue. The plates therefore because Alike in the Derbyshire, South Yorkshire, and South Staffordshire iron was of fair average quality, and was 5-16ths thick. A distinct water line upon each side of the flue where it had collapsed showed that at the time of the explosion the water had been about 9½ inches below the level of the top of the flue. The plates, therefore, became overheated, and the boiler went off at what is believed to have been a 40-lb. pressure. The accident, therefore, is clearly due to inattention and negligence on the part of the attendants who had the boiler in charge. These were an enginewright, who was killed, and an engineman, named William Osborne, who worked under him. The latter, when he found the float down on the tube, called to the enginewright, and they both began raking out the fire. The enginewright had the rake in his hand drawing out the coals, and young Mr. Hollsworth was by his side when the calamity, which they were trying to avert, happened. The other two deceased were workmen who were on the bank at the time. The accident happened at about an hour and a half after the boiler was given up by the engineman on the night-turn, and the responsibility, therefore, must be supposed to lie between the deceased enginewright and his man Osborne. When he took to the engine Osborne professes to have found the water in the boiler 6½ in. above the tube, judging by the position of the ball. The donkey-engine was then, he says, working into the boiler, and continued to work for 20 minutes; but, as may be imagined, Mr. R. B. LONGRIDGE, the engineer of the Boiler Insurance and Steam-Power Company, Manchester, who examined the boiler after the accident, at the instance of Mr. Evans, the Government Inspector of Mines, believes that Osborne is in error as to the quantity of water in the boiler when he took to the engine. The man may have been equally in error in his statement as to the time during which water was afterwards passed in. Anyhow, it is clear that there was a shortness, and to that cause the collapse, with all its consequences, is to be attributed, for the boiler was generally well c

what apparatus you may, inattention and negligence on Provide what apparatus you may, inattention and negligence on the part of the workmen who have them in their charge will not pre vent disarrangement and accident. Still colliery proprietors will do well to leave no room for question that they have furnished their boilers with all the appliances for safe working which can be pro-cured. Mr. LONGRIDGE's report upon those attached to the boiler in this case, from which we have taken our own description, shows that although originally furnished with tolerably abundant safe. In this case, from which we have taken our own description, shows that, although originally furnished with tolerably abundant safeguards, yet it was not so amply protected at the time of the accident. The enginemen had evidently to depend for guidance chiefly upon the float, which Mr. LONGRIDGE correctly said "is sufficient for a water-gauge," "but," he added, "I don't like it so well as a glass tube." Nor do we. If the packing of the float should be screwed too tight it would thereby be at any time put out of order. It does not, however, transpire that it was screwed too tight in this instance. A float-wheel may be tested by a careful engine-tenter in the dark, and this one was so tested by OSBORNE at 10 minutes to 6 o'clock on the morning of the accident; and, without a light, at a quarter past. the morning of the accident; and, without a light, at a quarter past seven he found that the water was on the tube. But a man wanting in care may trust too much to the sense of feeling, and the carefulness resulting from ess resulting from a necessity for look feeling a float-wheel, be abandoned. Whilst the float need not be given up, it would be wise to continue to supplement it with the glass gauge, which the engine-tenter should be required rigidly to watch. At the concluding inquest in this case, which was held yesterday (Friday) week, the jury did not return a verdict of a criminal charetary) week, the jury did not return a verdet of a criminal character, for the Coroner had directed them that probably the enginemen had been deceived in measuring the water, or by the machinery being out of gear; and, as theirs were the lives in jeopardy, he did not think there was evidence to prove any criminal negligence. The verdict, therefore, was that of "Accidental Death."

Engine-tenters would do well to bear in mind that if they should find their holier in a similar conditions that it at the state of the state

find their boiler in a similar condition to that in which this one was found immediately before the accident they should neither rake out the fire nor blow-off steam. Raking out will increase the heat, and blowing-off will be even more dangerous. Their alternative is to put down the damper, and get out of the way as quickly as possible.

An accident of a much more destructive character in reference to

the demolition of property than that in Derbyshire, but happily unloss of life thus far, happened last Wednesday, about buth Yorkshire district, at the Aldwarke Main Colliery, attended with los belonging to Messrs. WARING, SHAW, and Co., and situated at Ra

marsh, about two miles from Rotherham. One of the three side-by-side 36 ft. by 4½ ft. boilers, belonging to the very powerful drawing-engine of the pit, exploded, with a report which was audible several miles around. "In a moment," our account has it, "the engine-house became a mass of ruins, the gearing at the pit mouth was blown away, became a mass of ruins, the gearing at the pit mouth was blown away, and bricks and timber were flying about in all directions." It was the boiler that lay nearest to the engine which burst, and in its riven condition seems to have darted in the right line to upset the erections; but although there were some 30 people upon the bank, yet the worst personal injury at present known appears to have been a fractured limb. There were 282 men in the pit at the time, and the customary rough and ready means had to be adopted for bringing them up. As may be imagined, some hours elapsed before the last man was landed. The information to be hereafter obtained upon this accident will prove of great interest, because of the contrast which man was landed. The information to be hereafter obtained upon this accident will prove of great interest, because of the contrast which the misfortune presents to that at Clay Cross. There the boiler was moved only slightly from its seat; nevertheless, four persons are killed. But here pieces of the boiler, weighing perhaps 2 tons each, are impelled several hundred yards. A collapse is not, therefore, of necessity a less disastrous termination to the life of a boiler than an explosion.

The accident in South Staffordshire has not happily, been attended.

The accident in South Staffordshire has not, happily, been attended with consequences of so serious a character. There, however, the engine-tenter has been killed. The occurrence happened on Tuesday afternoon, at the Whitehall Colliery, Greet's Green, West Bromwich. This was an explosion and not a collapse, and the boiler went off in three pieces, scattering the brickwork of the engine-house all around, and haveing the engine-tenter in the ruins. three pieces, scattering the brickwork of the engine-house all around, and burying the engine-tenter in the ruins. Several persons were injured, not, however, seriously, and amongst them Mr. J. A. KENDRICK, the proprietor of the pit, who was standing upon the adjoining canal wharf at the time of the accident. The official enquiry is still on, and we do not, therefore, discuss the accident further at this time. We have said above what we think it is desirable that colliery proprietors should do in order to make their machinery of this class as complete as possible. Let us now remind work-respond of the means

prietors should do in order to make their machinery of this class as complete as possible. Let us now remind workpeople of the means which employers have in their power to punish wilful negligence. By the Master and Servants Act, passed late in the last Parliament, an employer can bring a claim against his workpeople for damage resulting from such conduct, and, in default of payment, he can get them summarily committed. A case in which an engine-tenter at a South Staffordshire iron works allowed the plates of his boiler to become red-hot, through neglecting to see that the blow-cock was closed before he began to fire, was ajudged two months' imprisonment, in default of the payment of a fine of 10L, was noticed in the letter of our South Staffordshire correspondent last week. Well, the man deserved his punishment, for the negligence took place at a works not far from that at which the explosion which killed some 12 workpeople happened only a few months ago, in the same district. It is clear, however, that the lesson which such occurrences should teach are not easily learnt by some men. This fact is not only deducible from the nower, that the lesson which such occurrences shout teach at all the easily learnt by some men. This fact is not only deducible from the case just mentioned, but it is further conclusive from the circumstance that at another ironworks in the same district there happened on Christmas Eve, also from the boiler being allowed to get short of water, an accident, which happily resulted in no fatal consequences. A rent was made in the side of the boiler, and the bricks were scattered, but no fauther damage was done.

was made in the side of the boiler, and the bricks were scattered, but no further damage was done.

This last case brings up again the matter of inspection and assurance. Neither had been resorted to in the case of the Clay Cross accident; but the boiler which opened on Christmas Eve was under inspection. It was situated at the iron works of Messrs. FLETCHER, SOLLY, and URWICK, Willenhall. Whilst inspection did not prevent an accident, it may be inferred that it obviated a serious calamity. If there had been inspection or assurance at Clay Cross, the importance of the tell-tales which when the boiler was laid down were affixed to it being continued would have been pressed in the reports affixed to it being continued would have been pressed in the reports of the inspectors. Even then, no doubt, the catastrophe might have occurred, but everyone must conclude that it would have been less

likely to have happened.

THE NORLEY COLLIERY EXPLOSION.

THE NORLEY COLLIERY EXPLOSION.

The inquest upon the eight deceased who were killed by an explosion of fire-damp on Dec. 21, at the Norley Colliery, near Wigan, has terminated in a verdict which inculpates no one, but which contains some recommendations. The text of the verdict is as subjoined:—

"That the deceased came to their deaths by an explosion of gas in Dauber's place, caused by the firing of the shot; but we have no evidence to show how or by what means the gas accumulated. We recommend that the firemen examine the working places every day before the men commence work, and mark the day of the month on the roof close to the face when they have ascertained it to be safe. We further recommend that the proprietors turnish the safety-lamps and keep them in repair, and see that the gauzes, &c., are examined before they are allowed to go down the pit."

The decision of the jury was arrived at on Wednesday. The greater part of the day was occupied with the evidence of Mr. Peter Higson, the Government Inspector, who was undoubtedly of opinion

Higson, the Government Inspector, who was undoubtedly of opinion that the gas in the mine had been fired by a shot, and was particularly emphaticon the necessity of a very close inspection of the lamps.

Next week we hope to review the leading facts brought out in connection with this accident.

UNIONISM, AND ARBITRATION IN THE IRON TRADE.

Information reaches us from two of the large iron-making districts which, though of a different character in each case, yet, taken toge-ther, lead to the same inference. From the North of England it is ther, lead to the same inference. From the North of England it is communicated that attempts are again being made to get up meetings of iron-workers to secure a rise of wages, but that, so far, they have been only sparsely attended. The proclamations by which the meetings were summoned bear the stamp which characterised those that incited the men to the prolonged opposition to the only course which the masters could pursue, and which ended so disastrously to the Union some time ago. As a body, the men are sick of the dictatorship which "By Order of the Committee" implies; and whip though "the Committee" may, the dead horse will not respond. The workmen are tired of the incessant agitation, which is the life of two or three men, who, after moving about in different directions, seem now to have got back again to the North. Operatives who depend for their livelihood upon their industry at the mills and forges are in far better position to understand the exact condition of trade than are their would-be advisers. So soon as the right time comes for obtaining an advance in the present scale of wages paid they will get it, without the interference of "the Committee." Their masters will be only too ready to avail themselves of the condition of the market it, without the interference of "the Committee." Their masters will be only too ready to avail themselves of the condition of the market by which such an advance will be possible. That time, however, is not yet, as may easily be imagined, when it is seen that only the last weekly report upon the Continental Iron Trade shows that French and Belgian firms have just secured orders embracing a total quantity of upwards of 75,000 tons of rails, and that there is a probability of their getting a further order of 20,000 tons; and such reports are not the exception. Certain Unionists are prone to assert that they know better than their masters when a rise in prices can be obtained. If they think that this is the time they are hardly good strategists. By-and-bye, and that without a great deal of delay, it may be hoped and-bye, and that without a great deal of delay, it may be ho that, what with some of the foreign houses having filled up, and the general demand having greatly increased, we shall be able in this country to look for more money for our iron. That state of things, however, must exist before there can be any advance of wages. So es no one will more joyfully recognise the employers, for they are now giving more money for their pigiron, whilst they are receiving, as a rule, less for the finished article. They have, therefore, a much more powerful motive than any which "the Committee" can suggest why they should put up the prevailing list at the earliest possible date.

From South Staffordshire the information is that Unionism amongst From South Stanfordshife the information is that Chronish almost entirely died out. The Mining Journal has on previous occasions drawn attention to that fact, with relation in particular to the puddlers' Union. Still the millmen retained some show of organisation, and their society was decidedly the more powerful. But the millmen are now too, shandoning Unionism. powerful. But the millmen are now, too, abandoning Unionism. Arrangements are in progress by which their funds will be divided, pro rata, and their association be broken up. This step has been hastened by the secretary of the millmen's Union, who is himself an ronworker, having resolved to associate with two or three others, and ake to one of the small ironworks, now without occupants, in South

Staffordshire. But it is not improbable that the contemplated aban donment of the Union may have led the secretary to take the course which he is now pursuing. Certain it is that for sometime past our correspondents have gathered that the members of the association have complained that they were not being so heartily supported by the mass of the millmen as they conceive they ought to be; that, it fact, a small proportion were, by the maintenance of the association by the necessary contributions, fighting the battle of the whole. On this they have become sick, and were disinclined that it should continue. To such a feeling the razing of the society is, in all probability, chiefly due.

We would not attempt to hide the satisfaction which we feel at the

We would not attempt to hide the satisfaction which we feel at the decadence of Unionism in the ironmaking districts. Our satisfaction, however, is not owing to any desire that the men should be without any legitimate help which they think they can obtain from mutual trade combination; but rather because the way seems more than ever before open for the establishment in the different districts of Boards of Arhitration and Conciliation after the fashion of the Nottinghem of Arbitration and Conciliation after the fashion of the Nottingham plan, or of Arbitration Tribunals, such as that established by Mr. RU-PERT KETILE, of Wolverhampton. The Cleveland ironmasters have begun to discuss the subject, and though there are more difficulties in the way of adapting the proceedings of "the wise men at Notting-ham and elsewhere" to the different branches of the iron trade, than there are in applying them to the hosiery or the building or the cot-ton trades, yet the Northern ironmasters believe that those difficul-ties are not insuperable. We are inclined to look upon the forsaking there are in applying them to the hosiery or the building or the cotton trades, yet the Northern ironmasters believe that those difficulties are not insuperable. We are inclined to look upon the forsaking of Unionism amongst the ironworkers, to which we have drawn attention, as indication that the men themselves entertain similar notions. They believe that they can arrive at all the good results contemplated in trade Unionism by a much less costly and cumbersome appliance. In brief, their conduct indicates that the spirit of the age is operating in their case. The tendency to arbitration and conciliation with a view to the averting of war, either national or social, is a characteristic of these times. Peace is more dearly cherished now than at any other period in the history of our nation, and in trade matters the great bulk of the men hate strikes as heartily as their masters hate them. The Manchester operatives who, by their very admirable conduct at the time of their recent terrible distress, have made themselves a name in history, and who may, therefore, be fairly assumed to be amongst the wisest and most prudent of their order, are amongst those who have just established a Board of Arbitration for the adjustment of differences between themselves and their employers. Is it not right to infer that the operative ironworkers employers. Is it not right to infer that the operative ironworkers have determined that they will not be behind other classes of artizans in this particular evidence of progress? The masters in all the different ironmaking districts will do well to avail themselves of the present juncture to arrive at a definitive conclusion as to the adaptability of arbitration to their particular industry.

STANNARIES LAW AMENDMENT.

The draft Bill for effecting the amendment of the Stannaries Laws, so as to adapt them to the present requirements of mining enterprise, has now been prepared by Mr. THOMAS CORNISH, of Penzance, and will be thoroughly discussed at the meeting to be held at Truro on Monday. Although no doubt some alterations will be necessary in order to meet the wishes of out-adventurers (for it must be admitted that at present the Bill shows enormous consideration for the Cornish interest), the manner in which the views expressed at the meetings in the county have been reflected in the Bill entitles Mr. Cornish to the utmost credit for the large amount of professional skill be has in the county have been reflected in the Bill entitles Mr. CORNISH to the utmost credit for the large amount of professional skill he has displayed in the matter. As a complete abstract of the Bill is subjoined, it will be preferable rather to leave it for the consideration of those interested than to express an opinion as to the probable operation of the measure in the event of its becoming law. The difficulty of dealing with out-adventurers in mines within the Stannaries has ever been complained of in Cornwall and Devon, the law, as it previously stood, securing them, it is said, all the advantages of the Cost-book System, although an unfair proportion of the responsibility had to be borne by those residing in the vicinity of the mine By the proposed Act all adventurers will, it is considered, be placed in an equally favourable position; the uninterrupted working of the mines will be secured; in-coming shareholders cannot be prejudiced by the existence of heavy liabilities for debts incurred, perhaps, years before their connection with the undertaking, and the servants of the mines will be secured; in-coming shareholders cannot be prejudiced by the existence of heavy liabilities for debts incurred, perhaps, years before their connection with the undertaking, and the servants of the company will be secured against the loss of their hard-earned wages in the event of the working of the mine being discontinued. The Bill introduces several new features into the Cost-book System, and as the fear has been expressed by many out-adventurers that the proposed Act will operate much more harshly upon those who supply the capital than either the "Companies Act, 1862," or the law by which Stannaries mines are at present regulated, much caution should be exercised in amending the present law. The subjoined is an abstract of the draft Bill:

— PRELIMIAREY.

1.—The short title of the Act is to be "The Stannaries Act, 1869."

2.—Interprets the terms Stannaries, Vice-Warden, Court, Registrar, Purser, and Cost-book—the latter to include all books and papers relating to the business of the mine.

3.—The Act extends only to mines within the Stannaries, and subject to the jurisdiction of the Vice-Warden.

4.—Nothing in the Act applies to companies, unless they be expressly mentioned, registered under the Companies Act, 1862.

5.—When the Act requires special notice to be given of anything to be done at a meeting, the notice must be served on the several shareholders 10 clear days before day of meeting, and must specify place and time of meeting and the special business to be done.

6.—A resolution is special when passed at such meeting by the votes of three-fourths of all the shareholders, and confirmed by a majority at a second special meeting, to be bolden not less than 14 days nor more than one month afterward.

7.—By special resolution the condition and regulations must not be inconsistent with the Act, and will have no effect until allowed by the Vice-Warden.

8.—Notices may be served personally or by post to the address entered in costbook; proof of posting to suffice, and time of service to be time

book; proof of posting to suffice, and time of service to be time of delivery in ordinary course.

9.—Each purser must, as to existing companies, within two months of the passing of this Act, and as to new companies within one month of the date of formation, enter in the cost-book accounts showing the actual financial position of the company at the time of entry, including accounts of the assets, credits, and liabilities, with cash accounts and accurate lists of all the shareholders, with their respective addresses, corrected from time to time as occasion requires (notice of change of address must be given to the purser in writing), and all other accounts, documents, and things which the purser is for the time being required to enter therein by the custom of the Stannaries, or by the directions of the companies.

10.—Any creditor, and any shareholder personally, or by agent, may at all reasonable times inspect the cost-book, and may take copies, or require the purser to furnish copies, at the price fixed by the regulations.

11.—The Registrar is to keep a "Register of Pursers," showing the companies for which they act, and every person acting as purser must, within one month of passing of Act or formation of company, procure himself to be registered in the Register, with the name of the company by which he is appointed.

12.—The Registrar may remove the name of any person from the Register of Pursers on his own request in writing, or on proof that he has ceased to be purser, or on proof of death.

13.—There is to be no fee for the entry or removal of a name from the Register of pursers.

proof of death. ere is to be no fee for the entry or removal of a name from the Re-

13.—There is to be no fee for the entry or removal or a name from the Magister of Pursers.

14.—Any person may search the Register of Pursers.

15.—The penalty for acting as purser, without being registered in the Register of Pursers, is 501, and not exceeding 51. per day for continuing so to act; and the penalty may be sued for and recovered for the benefit of the person suing; with costs.

16.—If a purser neglect to make in the cost-book any entry which the Act requires, or refuse the inspection authorised, or to furnish extracts, if required, any creditor for 501, or upwards, or any three or more shareholders, may apply for an order to compel the purser to do what he has failed to do, and the Court may make such order as it thinks just, and also for the payment by the applicant or by the purser of the costs of the application.

21.—At any meeting with special notice, at which there are present in person, or by proxy, at least one-sixth in value of all shares, the accounts may be audited, and a call made, by the votes of three-fourths in value of the shareholders of the shareholders of the shareholders of the shareholders of the shareholders.

ers so present.

18.—A call may be made to defray estimated expenses to be incurred within two months of date of meeting.

19.—Where a call has been rejected by a meeting, one-sixth in value of the months of date of meeting.

—Where a call has been rejected by a meeting, one-sixth in value of the
neuturers may apply to the Court for an order directing the company to make

a call.

If each of the accounts of a company during six months have shown a loss, and no sufficient call is made by the company, any creditor for 501., or upwards, may give notice to the purser that he desires that a call should be made, and if the purser does not within —— satisfy the creditor that a sufficient call has been made, the Court may be applied to for an order directing the company to make a call.

21.—The order of the Court as to making a call is to have the same effect as a resolution of the company making a call.

22.—The Court, in addition to its ordinary powers, may enforce any order made

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by it on a purser's potition, for calls or expenses, in the same way and to the same extent as the Court of Chancery in England.

TRANSPER OF SHARES.

23.—A company is not bound to recognise a transfer until all calls made thereon are settled.

are settled.

24.—Nor to recognise the transfer of a fractional part of a share.

ENFORCEMENT OF CLAIMS.

25.—Money payable by a shareholder to a company becoming due after the paing of this Act is to be deemed a debt due from a shareholder to the company and recoverable by the purser. The rights and remedies given by this section are to be cumulative.

FORFEITURE OF SHARES.

recoverable by the purser.

In Figure 1. The recoverable by the purser.

Observable 1. For Fitting of Shares.

If a shareholder fail to pay a call on the appointed day, the company may a notice on him, requiring him to pay call, with interest and expenses, notifying that in case of failure the share will be liable to forfeiture.

If the notice be not compiled with, the share may be forfeited by a resource of the company.

27.—If the notice be not compiled with, the share may be forfeited by a resolution of the company.

28.—The shares so forfeited are to be carried to "The Account of Forfeited Shares," and are to be deemed the property of the company. They may be sold by auction or otherwise, and shareholders may purchase them.

29.—Where a shareholder fails to pay on more shares than one, only so many as it is estimated will be sufficient to liquidate the calls due and the expenses must be sold, any surplus derived being payable to the shareholder.

30.—If the calls, interest, and expenses be paid by the shareholder before the forfeited share is sold, it is to revert to the person to whom it belonged.

31.—A statutory declaration in writing by the purser that the call was made, notice served, default in payment made, and share forfeited by resolution of company is sufficient evidence against all persons interested in the share, and the purser's receipt constitutes a valid title to the purchaser.

22.—"Where a share is forfeited the holder thereof shall, nevertheless, be liable to pay all calls, interest, and expenses payable on or in respect of the same at the time of forfeiture."

RELINQUISIMENT OF SHARES.

to ply an early the time of forfeiture."

33.—Where a share is relinquished it must be carried to "The Account of Re linquished Shares;" it is to be deemed the property of the company, and may be disposed of as the company direct, and any shareholder may purchase it, if soil 34.—Upon relinquishment the machinery and materials are to be valued, ac cording to Stanuaries custom; if the balance be against the relinquishing shareholder, he is to pay the amount to the purser on demand; but if the balance be in favour of the relinquishing shareholder, he is to "be deemed to have aban doned it by the act of relinquishment."

35.—The company is not bound to recognise the relinquishment of a fractiona part of a share.

of a snare. -Places a relinquished share in the same position (see sec. 31) as forfeited

shares.

SALE OF MINE.

37.—Without prejudice to the provisions of the setts, the company may, by special resolution, sell the mine, setts, machinery, and materials as a going concern but not until public notice has been given by advertisement inserted once in each of four successive weeks in a newspaper published in the county in which the resolution is sellent to the county in which the sellent is sellent to the county in which the sellent is sellent to the county in which the sellent is sellent to the county in which the sellent is sellent to the sellent to the sellent sellent to the sellent sell mine is situate.

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two years or more before date of petition are not to be liable to contribute to the assets of the company.

39.—Mining companies (including those under the Companies Act, 1862) may be wound-up in County Courts within the Stannaries, which are to have the same jurisdiction as the Vice-Warden's Court, when the debts do not exceed 500 to —jurisdiction to be exercised as provided by sec. 41 of the Companies Act, 1867.

40.—Upon winding-up a mining company (not less than two months after the passing of the Act) the amount due to agents, clerks, miners, labourers, and others employed about the mine in respect of not exceeding three months salaries or other earnings must be paid in priority to all other debts of the company.

8AVING.

pany. SAVING.

41.—The Act is not to take away the right of creditors in respect of debts of liability incurred before the expiration of two months from the passing of the

lability incurred before the expiration of two months from the passing of the Act.

THE COUNT, PROCEDURS, &c.

42.—The Vice-Warden may, with the sanction of the Lord Warden, appoint a Deputy, and all acts done by the Deputy are to have full force and effect.

43.—Confers power on the Lord Warden to appoint Deputy Vice-Warden in ase of Vice-Warden's inability to do so.

44.—The Deputy has all the powers, authorities, and privileges of the Vice-

Warden.

45.—An affidavit may be used in any proceeding in the Court if sworn before any Commissioner to administer oaths in Chancery.

46.—The power of the Vice-Warden under Sect. 14 of 6 and 7 William IV., cap. 166, is to be extended to the making of rules and orders for the serving by post or otherwise of notices, writs, and other documents not requiring personal service; the issuing of injunctions by the Registrar where they are now issued by the Vice-Warden on motions of course; and the closing of offices during vacation, subject to the restriction that the Court shall be open for the receipt and payment out of money under order of the Court.

The preliminary sections, and those relating to meetings, do not ap pear to require particular notice. With regard to the sections concerning accounts, and the registration of pursers, it is difficult to see the object of the registration, unless it be to enforce the keeping of the boject of the registration, duries it be deficite the keeping of the books and documents in proper order, and the furnishing of extracts when required. Of course, it may be desirable, so far as the shareholders are concerned, to place this responsibility upon an individual instead of upon the company, but some difficulty might arise in enforcing the penalties in the event of the purser being a mere clerk, at a small salary; and as the defined duties of a purser are only such as any ordinary more about the could well are form; it must be such as any ordinary merchant's clerk could well perform, it may be that officers above that class would not be appointed. Another novel feature in the Bill is, that it practically gives creditors

Another novel feature in the Bill is, that it practically gives creditors a voice in the internal management of the company, so that a man may induce the company to become indebted to him, and then compel the shareholders to make calls to repay him, whilst at present he has to depend upon his judgment as to the respectability of those whom he credits. The 34th section is another which is worthy of careful consideration, as there is a slight want of mutuality, the relinquishing shareholder losing whether the balance is against him or in his favour; yet the power of relinquishment upon equitable terms, now to be abolished, is one of the principal recommendations which the Cost-book System possesses. Unless the wishes of those who provide the money for working the mines, as well as of those who superintend its expenditure, be consulted, even those who have resolved apon the amendments might regret their resolutions being carried into effect. But as the question of special legislation for mines is one in ffect. But as the question of special legislation for mines is one in which a very large number are deeply interested, ample space will be afforded in the Journal for the thorough discussion of the subject.

THE SHIREOAKS COLLIERY .- In the Mayor's Court, Guildhall, on Monday, the attachment of "Plant". It he Mayor's Court, Guidmail, on Monday, the attachment of "Plant". the Shireoaks Colliery Company" came before the Recorder, the judge of this Court. Mr. Reuben Plant had attached all goods and effects of Mr. James Nugent Daniell, in the hands of the Shireoaks Company, to cover a debt sworn to be due from Daniell to Plant. After hearing counsel on both sides, the learned Recorder decided that Plant was entitled to 7811. 58. the amount of dividends then due. 817, 5s., the amount of dividends then due.

THE CHANNEL BRIDGE.—It has been suggested to us, in reference o M. Boutet's proposed Channel Bridge, which we noticed in last reek's Journal, that it might not only be made the medium for hourly ostal communication with Paris, as explained in the Journal of Jan. 9, but might also be a most valuable aid to telegraphic communication, as the risks and uncertainty to which the submarine cables are liable might be obviated by carrying them over the bridge, where they would not be liable to injury, and, if they were injured, could be easily ex-amined and repaired. This seems to be worth the attention of the continental telegraph companies.

MINING ENTERPRISE IN THE OTTOMAN EMPIRE-THE RUSSIAN POLICY TOWARDS POLAND AND TURKEY.—For some time past frequent notices have been published in the Mining Journal pointing out the strenuous efforts being made by such able officials as Halil quent notices have been published in the Mining Journal pointing out the strenuous efforts being made by such able officials as Halil Pasha and Ahmed Bey to secure the more energetic development of the mineral resources of the Ottoman empire, so that a lively interest cannot fail to be felt in all that relates to the general condition of that country, of the Palais-Royal, Paris), entitled "Le Dossier Russe dans la Question d'Orient," of the Palais-Royal, Paris), entitled "Le Dossier Russe dans la Question d'Orient," of the Palais-Royal, Paris), entitled "Le Dossier Russe dans la Question d'Orient," will be received with pleasure by a large number of readers. It is beyond question that the internal vitality of Turkey is far less known than it should be, both in France and England, the natural consequence being that the immense industrial resources of the empire, if not neglected, are, at least, deprived of the aid they might reasonably expect to derive from the employment of capital from Western Europe for developing them. The comparisons drawn in the work in question between Turkey and Greece and between Turkey and Greece and between Turkey and Russia are admirable. It is very truly observed that the Turkish Government is at once the most charitable, the most hospitable, the most tolerant, and, one of the first in the world; in that the Turks are better Mussalmans than we are Christains; that whilst in Kussia the religious periodicals are most insulting to Turkey, you observe nothing of the same kind in the latter empire; and that it compares favourably with Greece, where brigandage has become a national industry, and apparently the only one that prospers. And if we turn to the commercial aspect of the question, the result is equally favourable to the reputation of Turkey. The writer puts this matter forward tersely and truly—" With what of progress? Every Government, unless perhaps Russia, has publicly declared a hundred times, and in various ways, that this movement is rapid and continuous; and when, in open

certain that with a Sultan so liberal and firm as Abdul Aziz, surrounded by connsellors so eminent for their knowledge, their experience, and their patriotism, this progress will continue? That "Un ancien Diplomate on Orient" is intimately acquainted with the subject on which he writes is beyond question, and the aulmated and attractive style which he has chosen for expressing his thoughts will ensure every word being attentively read and carefully considered.

MINING, METALS, AND MINERALS-PATENT MATTERS.

BY MICHAEL HENRY, Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Eug.

W. RYB, of the Low Moor Iron Works, Oldham, engineer, has spe cified an invention for apparatus for supplying fuel to steam-boiler and other furnaces. This invention is particularly applicable to steamboilers furnished with one or more internal flues, containing the fire-grate or grates, but it may be applied to boilers without flues, and to other furnaces, and it consists in driving the apparatus for distribut-ing the fuel evenly over the said grates. The fuel is fed into a hopper, other furnaces, and it consists in driving the apparatus for distributing the fuel evenly over the said grates. The fuel is fed into a hopper, and then passes between crushing or feeding rollers, and it is distributed by a fan, to which a reversing motion is applied, so as to cause it to revolve first in one direction and then in the other. The reversing motion may be obtained by an open and a crossed strap, in the same manner as the reversing motion of a planing-machine or otherwise. The feed-rollers are driven by independent gearing, whereby the rollers can be turned round either faster or slower, or stopped and started when required, without affecting the motion of the fans, which are continually in motion. The damper leading to the chimney is are continually in motion. The damper leading to the chimney is connected to the strap-forks of the driving-straps, so that when the strap that drives the feeding-rollers is on the loose pulley, the damper will be closed, or partially closed. The position of the dampers and the motion of the feed-rollers are regulated by the pressure of the steam. A piston or float, acted upon by the steam, is connected with the levers and rods in connection with the damper. The modes of applying the pressure of steam to regulate the position of the damper may be considerably modified. C. E. BROOMAN, of London, has obtained a patent for apparatus for

C. E. BROOMAN, of London, has obtained a patent for apparatus for the manufacture or production of carbonic oxide hydrogen and carburetted hydrogens: a communication to him from abroad by the company or society Cyprien Tessié du Motay and Company, of Paris. This invention consists in a combination of gasogeneous apparatus, capable, without notable loss of caloric, of transforming coal or other fuel into—first, carbonated hydrogens; secondly, pure hydrogen, mixed with carbonic oxide or oxide of carbon; and, thirdly, carbonic oxide, mixed with azote. These products are collected separately, and are employed for the production of high temperatures, or may also be employed for the production, without smoke or fumes, of also be employed for the production, without smoke or fumes, of high or mean temperatures; or for the production of neutral or oxidising flames for the metallurgical treatment of metals; or for the carburation of iron; or for the reduction of metallic oxides; or for the chemical displacement of sulphur, chlorine, fluorine, and sul phuric acid, combined with alkaline, alkalino terrous, and metallic bodies. The apparatus produces simultaneously and alternately car-bonic oxide, pure hydrogen, and carbonated hydrogens.

THE NUISANCE FROM GALVANISING WORKS, -The letter of our Wolverhampton correspondent gives a description of an apparatus, provisionally patented by the Wolverhampton Corrugated Iron Company, the immediate object of which is to get rid of the nuisance which arises from galvanising works, but which is capable of very extensive application, and the necessity for which will increase as chemistry enlarges, as it is rapidly doing, its industrial applications.

The process appears simple, and is spoken of as most effective.

THE CORNISH ENGINE IN THE NORTH OF ENGLAND .- In our Correspondent's report from Northumberland and Durham, in last week's Journal, reference was made to the drainage of the Wallsend Col-Journal, reference was made to the drainage of the wallsend Colliery, Newcastle-upon-Tyne; it will, doubtless, interest our readers to learn that the powerful Cornish engines alluded to as being at work at Hebburn, as well as erecting at Wallsend, were made, and are erecting, by Messrs. HARVEY and Co., of Hayle Foundry, Cornwall, showing that even in the great northern centre of the coal district the economy in fuel, and suitability of these pumping-engines, are being understood and adopted; and one of the best proofs that can be offered of the soundness of the views so often urged in the Journal, that the true test of the respective relative merits of engines will be best found by an examination of the quantity of fuel consumed at the pit's mouth, this is now commanding attention.

IMPROVED PISTON PACKING.—A simple and durable kind of piston-rod packing—McLintock's Patent Metallic Packing—is at present being extensively introduced by Mr. F. Tuxford, of Cannon-street; it consists of rings made of alternate layers of linen and India-rubber cement, the whole being compressed in a powerful apparatus, in order to harden and consolidate it. The inner side of the ring has a thin copper lining, which is held firmly in its place by means of claws, which double over and into the linen. The rings are dense, elastic, and possess all the desirable qualities of good packing. With regard to durability, it is claimed that they will last five months in locomotive, and from twelve to eighteen months in stationary engine work in which case they will be entitled to a place amongst. engine-work, in which case they will be entitled to a place amongs the best packing rings extant.

COPPER IMPORTS.—The imports of copper, unwrought and partly wrought, into the United Kingdom, amounted to 85,800 cwts. in November, as compared with 57,680 cwts. in November, 1867, and 27,240 owns, in November, 1866. The imports of Chilian copper figured in these totals for 71,520 cwts., 36,480 cwts., and 18,680 cwts. respectively. In the 11 months ending Nov. 30 last year, the imports of unwrought and partly wrought copper amounted to 380,460 cwts. (of which 396,640 cwts. were Chilian), as compared with 504,780 cwts. (348,560 cwts. Chilian) in the corresponding 11 months of 1867, and 300,320 cwts. (181,500 cwts. Chilian) in the corresponding 11 months of 1866. Us. (181,500 owts, Chilian) in the corresponding 11 months of 1866. In the 10 years ending 1867 inclusive, the imports of unwrought and partly wrought copper were as annexed:—1858, 128,280 cwts.; 1859, 218,060 cwts.; 1860, 235,060 cwts.; 1861, 315,760 cwts.; 1862, 268,020 cwts.; 1863, 243,240 cwts.; 1864, 498,780 cwts.; 1865, 434,340 cwts.; 1866, 420,000 cwts.; and 1867, 593,260 cwts. This branch of our imports has thus year greatly extended during the last ten years. ports has thus very greatly extended during the last ten years.

ANNUAL YIELD OF GOLD IN AUSTRALIA.—The Australasian gold fields are evidently destined once more to astonish the mother country by an export of gold as large, or nearly so, as that which signalised the years immediately succeeding the first discovery of the wealth ised the years immediately succeeding the first discovery of the wealth contained in the colonial soil. The import from them into Great Britain has varied within the last 11 years from over 9,000,000/c. sterling in 1868, to as low as 2,650,000/c. ln 1862. Infl867 the import was 5,800,000/c, while up to the end of November last year it amounted to 6,850,000/c. The Board of Trade Returns for December are not yet published, but they will add something like 400,000/c. to the total import for 1888. No doubt the discovery of the New Zealand and Queensland gold fields has tended to augment the import of the last and the two or three preceding years, but New South Wales also increased its delivery in the 12 months just ended. The export to Great Britain is, however, but a relative test of the produce drawn from these auriferous regions. Gold is required for the Sydney Mint to furnish the coin circulating in the colonies themselves, and is exported to other parts than to Great Britain—as to Ohina, and the East Indies generally. The total value of the gold sent home to this country from Australasia since 1858 may be set down as over 70,000,000/c. but to arrive at the amount of the precious metal extracted from the soil there China, and the East Indies generally. The total value of the gold sent home to this country from Australasia since 1888 may be set down as over 70,000,000.; but to arrive at the amount of the precious metal extracted from the soil there must be added to that figure whatever was retained in the colonles as the circulating medium for the payment, for instance, of the diggers' wages, or for the general expenditure, as well as the sum sunk in plant and machinery. Thus, in 1866 the mining property in the colony of Victoria was estimated to be worth 11,000,000., and to what extent this may be increased it is impossible to say, since Mr. Selwyn, the Government Geologist, declares that Victoria has an area of "30,348 square miles, in any part of which there is a probability of remunerative gold deposits being found, either in veins or in alluvial deposits." An impression has got abroad in England that all the rich holes have been hit upon, and made to yield up their treasure. Every day's experience in the colony proves this notion to be utterly erroneous. Even in and about Ballarat, which early won the reputation of being the most magnificent El Dorado the world had yet known, there are 22 mining companies to be named that have returned to their shareholders dividends of 2,225,0004, on a called-up capital of barely 80,0001, and yet this sum has been obtained, over and above expenses, from only 250 acres, out of an area of 3000 acres held by them on lease or otherwise: 40,000,0001, sterling have been taken up from the ground now covered by the houses and streets of Ballarat; and there are indications unmistakable to the miner, now instructed by 15 or 16 years' experience, that the course of the river which once bore the gold in its waters has but to be followed, and deposits greater than any yet found will reward a scientific and persistent search. But to effect this, a larger capital, more powerful machinery, more hands—more everything, in short—must be set to work, over a greater breadth, and with a more simultaneous

action than Victoria has yet witnessed. In this way the gold of an extensive district will be gathered in a brief time, the land will be less free for the agriculturist or the builder, and the present generation will reap the benefit that under the hapbasard system of mining would have been left to a distant futurity. Mr. William Collard Smith, a magistrate, and a gentleman of long experience and success in mining matters, is now in London, commissioned to lay before English capitalists the details of a plan of the necessary magnitude, embracing operations over an area of rather more than 5000 acres, selected for their actually proved auriferous quality, or for their proximity to mines now in prosperous working, and thence pretty well ascertained to comprehend within them continuations of paying "leads." Mr. Smith comes recommended by long connection with the mining concerns of Ballarat, and by the fact that the confidence of his townsmen has often placed him at the head of various important municipal undertakings, besides having intrusted him with the care of their local interests as Mayor of their Administrative interests, and as their representative in the Colonial Parilament. This new enterprise, which he has been deputed by his fellow-colonists to introduce to the notice of home investors, will be brought before the English public early in February.

REPORT FROM NORTHUMBERLAND AND DURHAM.

JAN. 28.—On the whole, trade has improved a little lately, and there is a feeling that as the spring advances more life will be imparted to the coal, iron, and general trades of the district. Increased activity in the Coal Trade is particularly apparent in Durham, many of the colliery lines of railway being fully occupied; and at the Tyne Dock and other shipping places much activity prevails. The deep sinking at the Harton Colliery is progressing well, and the main seam is expected to be reached very shortly—that is, the Bensham seam, which in that locality affords excellent house coal. The seam is also of considerable thickness. The seam referred to last week as worked which in that locality affords excellent house coal. The seam is also of considerable thickness. The seam referred to last week as worked at Felling Colliery is generally supposed to be the Brockwell—that is, the seam known by that name at Noswood, Benwell, and that district generally. The celebrated Busty seam at Marley Hill, being held to be the same Brockwell by many authorities, but by others it is held (that is the Busty) to be the 5½ and 6½ seams on Tyne combined. As so many faults intervene, it is, perhaps, rather difficult to determine this very interesting and important question.

The late rise in the price of iron is well maintained, and makers have plenty of orders on their books, so it is very probable that

The late rise in the price of root is well maintained, and makers have plenty of orders on their books, so it is very probable that shortly a further advance may be expected; however, it must not be forgotten that the late rise was caused to a considerable extent by buyers for forward delivery, the conviction being that the minimum price had been reached. Caution is, therefore, necessary, and some time must clapse before the real permanent nature of the demand is generating. is ascertained. Should the present price be maintained, which appears pretty certain, and a further rise take place, a number of additional furnaces may be expected to be blown in, and of course the advancing rates will then have to struggle against increased produc-duction. The men are already showing signs of uneasiness, and should the price advance much further they will undoubtedly make should the price advance much ruther they will unacoustedly make serious claims to a share in the increased profit. Quotations remain as before—No. 1, 49s.; No. 3, 47s.; and No. 4, 46s. The trade for manufactured iron is also brisk, there being a good demand for bars, angle-iron, ship-plates, &c. The activity in the iron shipbuilding trade causes a demand for this kind of iron. Increased activity in the coke trade is also noticeable in South Durham. Mills are in course of construction at South Stockton, intended to develope the steel trade, the steel to be manufactured from Cleveland iron. Mr. steel trade, the steel to be manufactured from Cleveland iron. Mr. B. Samuelson, M.P., has become the lessee of the works for this purpose, and Mr. Heaton's process is to be adopted in the manufacture, the refining process to be conducted on a principle patented by Messrs Richardson and Johnston.

An improved form of combined sleeper and chair, intended for col-An improved form of combined sleeper and chair, intended to solve liery use, is being introduced by Messrs, George Hopper and Sons, of the Britannia Iron Works, near Fence Houses; it is said to be the invention of a Belgian manufacturer, from whom Messrs, Hopper invention of a Belgian rights for this country. According to the invention of a Belgian manufacturer, from whom Messrs. Hopper have secured exclusive rights for this country. According to the invention referred to, it is proposed to have, instead of a wooden sleeper with east-iron chair, a sleeper and chairs in one piece of wrought-iron, made in a trough-shaped section. It has been found, from an experience of some years in the French, Belgian, and German collieries, that this wrought-iron sleeper, from its superior endurance, is much cheaper than the wooden sleeper in the long run. The mathematical accuracy and rigidity of the wrought-iron may prevent the very great wear and tear and destruction of property which often result from chairs being loose or broken, or from the easy fracture of the ordinary wooden sleeper. In the continental coal fields thousands of tons of these iron sleepers are now in use, and it is not too much to anticipate that our large coal trade will entail a tenfold demand for them in England, Scotland, and Ireland. Nothing can be more deserving of attention in an iron-producing country than any invention which has for its object the economical substitution of iron for wood.

A strike has taken place at Mr. Chayton's Casterbourne Colliery,

A strike has taken place at Mr. Chayton's Casterbourne Colliery, A strike has taken place at Mr. Chayton's Casterbourne Colliery, near Bisbop Auckland, and nine of the men were brought before the magistrates there, on Monday, charged with absenting themselves without having given due notice. The men were ably defended by Mr. Patrick. It appears that the men had held a meeting, and agreed to ask the viewer for an advance in price, which he refused to give, and the men then left work without notice. The defence of the men was that the viewer told them "if dissatisfied that they were at liberty to leave," and after due consideration the magistrates decided to dismiss the case on this ground, that the men were under the impression that they were at liberty to leave.

The subject of technical education continues to attract much attention, and the movement for imparting it advances most rapidly. Schools have been established at most of the greate collery centres already. Meetings.

the subject of teachings education continues to attract much tention, and the movement for imparting it advances most rapidly. So have been established at most of the great coiliery centres already. Mee have been held lately at Murton and Seaham Collieries, under the presider Mr. Matthews at Murton, and Mr. Daglish at Seaham, where schools have established, in addition to those already reported at Blyth, Hetton, &c.; o will shortly follow, until the whole district is supplied.

REPORT FROM SCOTLAND.

JAN. 27.—There has not been much change in the price of Pig-Iron since my last, and the business done has been of an irregular and shifty character; in fact, speculation has been pushed so much that legitimate business has been in a measure suspended, and the "bulls" have taken the hint. A fair trade could easily be done in Scotch have taken the hint. A fair trade could easily be done in Scotch pigs at a moderate advance, which merchants are willing to pay, but business beyond that is eschewed in the meantime. Prices have declined about 7½d. a ton from their best, and yesterday closed at 55s. 0½d. buyers cash, and 55s. 3d.a month. To-day, market no better, and only about 1000 tons reported, at 54s. 10½d. cash, and 55s. 1½d. a month, closing sellers 1½d. more. No. 1, g.m.b., 55s. 9d.; No. 3, 53s.; Gartsherrie, No. 1, 62s. 6d.; Coltness, 62s.; Calder, 59s.; Glengarnock, 57s. The total shipments of the week from the Scotch ports were 8420 tons, against 5735 tons in the corresponding week of last year, which makes an increase on the shipments of the year till date were 8420 tons, against 5735 tons in the corresponding week of last year, which makes an increase on the shipments of the year till date of fully 6500 tons. Large contracts for delivery of Middlesbrough pigs are accruing here, but there is a deficiency in the quantity delivered on the year to date of 3050 tons, but this deficiency is being made up. Malleable Iron is again quieter, the spurt at the opening of the year having subsided by the shyness of makers, and the slight increase demand for second-class brands. The works are, however, well employed, both in this neighbourhood and at Coatbridge, but there is a scarcity, or rather, perhaps, a withdrawal, of merchants' orders for the present. Bars and angle iron as last quoted, but plates have been advanced 5s. a ton by some makers, whilst the Parkhead Company are demanding 10s. on ship-plates. The Caledonian Company are advertising tenders for supplying them with 10,000 tons malleable rails, 300 tons Bessemer steel rails, 4500 tons cast chairs, &c. Pipe founders have good prospects before them, and this week the Leeds Corporation are inviting tenders for 17,600 tons socket pipes, a portion of which will likely be taken here. The fact (repeated in the Times of last week) they Neilson and Co. fits is tity had taken a portion of which will likely be taken here. The fact (repeated in the Times of last week) that Neilson and Co., of this city, had taken a contract for 22 locomotives for a foreign Government, was made known to the readers of the Mining Journal two months ago, and need not now be reproduced. The tin-plate makers at Coatbridge are full of orders, and the tube works are moderately busy.

The trade in Coals, judged of by the aggregate shipments from the whole Scotch ports for the week, would indicate an increased business over the corresponding week of last year, were it not that nearly two-thirds of the quantity has been sent coastwise—the totals being 24,760 tons, against 17,255 tons. We yesterday met a coalmaster who was losing at the rate of 30l. a week by working his pits at present rates, the output being so unremunerative, and he knew of others similarly situated; and yet the miners in the employ of these masters go to the "stump" and denounce them as "slave-drivers" and "extortioners!" The colliers in the Glasgow and Govan districts have been reduced 6d. a day; and notice of reduction has been posted at some of the works in the Coatbridge district. The men are meeting, by delegates and in conferences, in the hope that they may avert the reduction. But unless more remunerative prices are got for coal a

reduction in wages, or a cessation of work altogether, is inevitable. To be working without profit is bad enough, but to continue working from month to month at a loss is what cannot be expected to con-

An important letter-" How Lives may be Saved after Explosion

from month to month at a loss is what cannot be expected to continue long.

An important letter—"How Lives may be Saved after Explosions"—has been written by Mr. James McMurtrie, writer, of Ayr, in which he proposes that fresh air shall be forced down the shaft through an iron pipe, and conveyed by smaller pipes along the floors of the principal passages into breathing rooms, made large enough to contain eight or ten men. In the breathing room there would be breathing jets, or separate pipes, provided for each man. Mr. McMurtrie prefers the recesses to carrying the pipes directly into the working places, lest the men should fail asleep and drop the pipes out of their mouths. The recesses are to have seats, like church pews, only with a celling, and a little narrower, and the men might go into them to take their breakfast. To guard against damage to the pipes, he would sink them a foot below the floor of the levels.

It gives us pleasure to notice that the Scottish Wagon Company (Limited), whose annual report is to be laid before the shareholders in Edinburgh, on Friday, is enabled to pay the very handsome dividend of 12½ per cent., and carry forward upwards of 5001, to the reserve fund, which will then exceed 50001. The report states that during the half-year ending Dec. 31, 567 wagons had been added to stock, at a cost of 23, 1551. 4s. 8d.; and 43 wagons been sold out of stock to lessees in terms of agreements. The total number of wagons now running amount to 7413, of which 7299 were let out on purchase leases, and 114 on hiring leases. The net balance of revenue 'account, after deducting from wagon rents the amounts applicable to capital and reserve fund for the half-year, and charging all expenditure in full, was \$5331. 17s. 5d.

The activity in the Clyde ship-yards is not so apparent as one would have expected, considering the work on hand. This is accounted for by the fact that the weather has been very unfavourable for out-door labour, as in most cases the yards are unprovided with shelter of any kind. Wh

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

JAN. 28.—As yet the improved demand for Iron cannot be said to have come nearer than expectation. The meetings of the Trade are quiet, orders as a rule are scanty, and sanguine reports of the state of the trade would only be like sailors in a calm whistling for a breeze. There is a steady quiet trade doing, however, though few of the works are able to keep in full operation. The Hardware Trades are moderately good in most branches, but not as a rule brisk.

An invention, which gives promise of being of great value in a sanitary point of view, has been provisionally patented by, and is in actual operation at, the Galvanising Works of the Wolverhampton Corrigated Iron Company. The operation of coating iron with sounding name of "Galvanising" is applied, has of late years been very rapidly extended in Wolverhampton, Birmingham, and parts of South Staffordshire, and has become a very important manufacture, which is rapidly spreading over the country. It increases in many ways the practicable application of iron for purposes of construction. The house of the coloniat and the shovel of the maltster are now largely constructed of galvanised iron; and the rolling of suitable sheets constructed of galvanised iron; and the rolling of suitable sheets forms no unimportant element in the work of the iron mills of the district. But these galvanising works have been and are the subject of considerable complaint by people living near them. Adense, white, pungent vapour, which, whether noxious or not, is certainly unpleasant, rises from the baths where the metal for coating is melted, and into this point was the this real sand, and in damp weather this falls and sant, rises from the baths where the metal for coating is melted, and into which the iron is dipped; and in damp weather this falls and crawls along the ground, irritating nasal and bronchial membranes, and not conducing to quicken the appetites of squeamish stomachs. The Wolverhampton Corrugated Iron Company have spent very large sums in endeavouring to prevent the escape of this gaseous exhalation into the air, but without success, until they adopted the plan now in use. Round the edge of the bath which contains the melted metal, and into which the iron to be coated is dipped, runs an open flue, forming a projecting lip. Pipes connect this with a powerful fan, which extracts the air from them, thereby causing a strong current of air to descend upon the melted surface, sweeping away vapours rising from it into the flue and down the pipes to the fan, whence it is driven along a flue to the furnace, where the articles galvanised are annealed, and in which the vapour is consumed. The difference produced in the shops by its use was most striking. The men who work over the bath are in a fresh, cool current, instead of in one of hot air, impregnated with the vapour which results from the changes caused by mixing acids and alkalies with too heated metals. It was the workmen's joke, when the process was first introduced, that they had got a parlour to work in, which they might as well have papered and carpeted. The process is applicable to all vessels containing fluids which give off offensive exhalations. Mr. Baker, Inspector of Factories, has seen and expressed his decided approval of the invention. The patentees are trying experiments with a view to conclude and within the deput of the conduction.

the invention. The patentees are trying experiments with a view to condense and utilise these vapours, which no doubt consist of the excess of substances necessary in the manufacture.

On Tuesday afternoon a steam-engine boiler burst at Mr. J. A. Kendrick's Whitehall Colliery, Greet's Green, near West Bromwich, and the fireman, a man 63 years of age, lost his life. He was buried in the ruins of the boiler-house, and died an hour after he was released. Mr. Kendrick and others were injured slightly. The boiler was torn into three pieces, which were carried to a considerable distance: 28 men in the pit had to be got up by an extemporised winding apparatus, horses being used as the moving power.

The case of a mannamed Peter Scully falling into and being drowned in the sump of Mr. Jones's Birchills Colliery, near Walsall, was finally investigated by the coroner's jury on Tuesday. It turned out that the pit had only been at work six weeks, so that the Special Rules had not yet been formally sanctioned. The owner and his son stated that the orders to cover the sump whilst the men ascended or descended, or were in the pit, were very strict. The jury, however, rescended, or were in the pit, were very strict. The jury, however, returned the usual verdict—the absence of special rules, having legal authority, being probably a bar to conviction, should it be other wise justifiable

wise justifiable.

In the case of the explosion at the Bentilee Colliery, Fenton, last week, Mr. Wynne, the Government Inspector, gave it as his decided opinion that the accident arose from the fireman having neglected to cover an old drift-road, down which the air passed, instead of through the workings, and, as it was clearly the duty of the fireman to do this, he was committed for "Manslaughter."

REPORT FROM DERBYSHIRE AND YORKSHIRE.

JAN. 28.—Trade throughout Derbyshire remains without alteration there being only a limited demand for manufactured iron, although one or two of the leading firms are moderately active. The business doing in coal is rather quiet, the mild weather having the effect of lessening sales to a considerable extent, more particularly with regard to household qualities. The tonnage going to London is not quite an average one, although for various reasons the northern part of the county supplies the largest quantity sent by railway of any district in the kingdom, it having advantages with regard to rates not enjoyed by Yorkshire or the North of England. Business with Birmingham and the Western Counties is tolerably good, although by such as is usual at this period of the year. The iron works in South Yorkshire are now favourably off for orders, and with one or two exceptions those in hand are likely to keep the men fully going for some time. At Milton and Elsecar the mills are in full operation, there being a good demand for rails, bars, sheets, and plates, some of which are for home consumption, and others for India. The hammer-men at the Penistone Steel Works are now more fully employed than for some time past, whilst the rail mill is again at

work. There is no improvement in the demand for coal, which is very quiet, more particularly for London and the South, the cause of which has been so repeatedly given that one is tired of alluding to the Great Northern Railway Company, and their all but prohibitive rate. Still it cannot be denied but what the policy of the company has seriously affected its own revenue, and inflicted incalculable injury on the colliery proprietors, who have been dependent on the line for the conveyance of their produce to the metropolis. A moderate tonnage is being forwarded to Grimsby of steam coal, but there is very little doing with Hull. The trade to Lancashire is still very dull, without any prospect of its improving, unless the Manchester, Sheffield, and Lincolnshire Railway Company accede to the application made last week for a reduction of their present mineral rate. There is now every appearance that the freedom from disputes of a serious character between employers and employed, which has been the rule for a considerable time past throughout the South Yorkshire district, is likely to be interrupted, and that we shall again have a fierce struggle between capital on one side and labour on the other. The first war-note has already been sounded, the battle ground occupied, and the antagonistic forces ready apparently for the laftray. The men employed at Mr. Huntaman's collieries, near Sheffield, considering that they have not been receiving the same rate of wages as paid by other coalowners in the district, and being dissatified with the terms on which they have been working—that they can be discharged at a minute's notice, or leave on giving the same—have refused to continue work unless there is an air stream of the control of

REPORT FROM MONMOUTH AND SOUTH WALES.

JAN. 28.—The Iron Trade of the district continues to steadily improve, and should nothing arise to check the good feeling which now unquestionably exists, there is every probability of the trade soon attaining a position similar to that it occupied previous to the disasters of 1866 and 1867. The rail mills at the leading establishments are kept fairly going, and the number of large contracts in the market raise expectations of a considerable amount of business being done at the various establishments, and affording full employment to the at the various establishments, and affording full employment to the hands engaged throughout the year. These opinions are considerably strengthened from the fact that the Belgian and French works are likely to be busily employed for some time to come in the manufacture of rails for Russian, Hungarian, and continental railways, and which will prevent any very keen competition with makers in this district for the large contracts now in the market. The men engaged at the rail mills are chiefly executing orders for the United States, British America, and South American markets, to which considerable supplies have to be sent. At the local ports large quantities of rails are now lying, waiting the arrival of vessels to convey them to their places of destination, and at the Newport Docks there are not less than 60,000 tons waiting to be shipped, being a much larger quantity than was ever before known, and there is no room left for stowing more until a few clearances have been effected. None larger quantity than was ever before known, and there is no room left for stowing more until a few clearances have been effected. None of the large quantity named is makers' stock, the whole being orders for the United States, British America, and South American railways. Rails are also being manufactured for Peru, to which country heavy supplies have to be sent during the spring and summer months. There is little or no variation to note in the home trade, but the gradual restoration of public confidence in railway securities gives home of restoration of public confidence in railway securities gives hopes of the leading companies becoming large purchasers at no distant date. Bars sell freely, catefly for exportation to the continental markets. Stocks of pig-iron are now considerably reduced, and makers experience no difficulty in obtaining full list quotations for best brands. The Tin-Plate Trade is in a healthy state, the mills in the district

being fairly employed, and makers anticipate some good orders being given out by American buyers forthwith. Last week a doubt was expressed as to the advance of 3s. per box agreed on at the Quarterly Meeting being maintained, but prices have since become firmer, and there is now a present of list quarterly being obtained before many. there is now a prospect of list quotations being obtained before many

weeks have elapsed. The Steam Coal Trade, from the fine weather during the past fortnight, is gradually recovering from the late depression, owing to the number of vessels arriving at the local ports, and the consequent increase in shipments. The majority of the vessels that have arrived are principally to take in coals for the Mediterranean, Turkish, and French ports, from which places there are numerous orders on merchants' and shippers' books at the present time unexecuted. There is an average demand from the mail packet stations and continental markets, and should the present fine weather continue a short time hence will witness the steam coal trade in a position something like its former activity. From some parts of South America there is a falling off in the demand, owing to the termination of the war in Paraguay, and shipping freights to that country have given way. For house qualities there is a slight improvement in the enquiry, but a considerable increase must take place before the resources of the district are fully called into requisition.

An important case—"Lewis v. Fothergill"—has been heard before Vice-Chancellor James, in connection with a dispute referring to the winning and proper working of some minerals under the Troedyrhis The Steam Coal Trade, from the fine weather during the past fort

An important case—"Lewis v. Fothergill"—has been heard before Vice-Chancellor James, in connection with a dispute referring to the winning and proper working of some minerals under the Troedyrhiw estate, near the Plymouth Iron Works, Merthyr Tydvil; and resulted in the Vice-Chancellor dismissing the bill, with costs, without calling on the defendants' counsel. An injunction was sought to restrain the defendants from working the coals from the rise of the Troedyrhiw estate—the coals were worked from the Tirtaldwin estate. The plaintiff contended that this being a lease of minerals under a farm of very great extent, there is to be implied in this acvenant that the property shall be won by means of an independent system of drainage provided on the estate itself, by sinking pits down to the coal, and working the coal from those pits upon that estate. The Vice-Chancellor found that from the evidence it was impossible for him to say that the defendants have improperly done anything to take the property, either by mala fides or without proper skill and proper care in so working; it did not seem to him that there can be any substantial difference whether it is worked by in-stroke or working from the deep. It was proved to his Honor's satisfaction that before the agreement was entered into the plaintiff's agent, with his authority, did settle with the defendants what particular mode they were to adopt in winning this coal, and that it was settled between them that this particular mode of reaching and winning this coal was by driving proper headings down to the deep. The agent had sworn positively, and it is not denied, that he had authority to enterint that agreement. He remained agent for two years after that. The defendants swear that they acted in pursuance of that agreement, that they always relied upon it, that it was known to the agent that they were doing this, and they say they took those steps in pursuance of that agreement, that they always relied upon it, that it was known to the agent that that was knowledge

At the Cardiff Police Court, on Wednesday, the case of the parish of St. Mary, Cardiff, v. Powell's Duffryn Coal Company was again brought forward. The company was summoned by the overseers of St. Mary's parish to recover rates for the last four quarters, amounting altogether to 485. 17s. The present case is a similar one to that of the Rhymney Railway Company's, which arose out of the ludgment in the Mersey Dock case, which, as the Lord Chief Justice recently observed, decided that all the cases upon the subject down to the time of Lord Mansfield, and from the time of Lord Mansfield to the present day, were wrong. The effect of that decision was that the occupier of property which is valuable is rateable to its value, whether or not he receives the

value to his own use, and whether or not it is beneficial, whereas it had been previously supposed it was only a beneficial occupier who was rateable. The stipendiary magistrate made an order for the payment of the amount, it being understood that, in the event of the decision in the railway case being favourable to the defendants, they would apply to the Court of Error.

It is rumoured that some important changes are to be made in the management of the Cardiff Docks, and it is also stated that Mr. Boyle has resigned the trusteeshlp, and that the docks will be shortly leased, the Marquis of Bute being desirous of ridding himself of the heavy responsibilities incurred in the management of a concern of such magnitude.

The arrivals at Swansea include—the Edith May, from Tilt Cove, with 305 tons of copper ore, for H. Bath and Son; the Victor, from St. Nazaire, with 256 tons of iron ore, for T. Waiters; the Saladin, from Antwerp, with 175 tons of fire-clay, for the Swansea Zinc Co.; the Star of the West, from Coquimbo, with 545 tons of copper regulus, for H. Bath and Son; the Algo, from Seville, with 26 tons of copper ore, for H. Bath and Son; the Aline, from Cuba, with 573 tons of copper ore, and 108 tons of copper regulus, for Cobre Company.

FOREIGN MINING AND METALLURGY.

FOREIGN MINING AND METALLURGY.

The movement of affairs has been rather more active of late in the Belgian coal trade; the fitful temperature which has prevailed has, however, had the effect of checking several important transactions which were upon the point of being concluded. Prices remain without variation in all the basins. An adjudication which has taken place for coal required for the Belgian State Railways has occupied the Belgian industrials to a considerable extent; higher rates had been expected, but this anticipation has been disappointed. The prices agreed on are the same as those which distinguished an adjudication of July 29, 1868; yet no one would be disposed to contend that the state of affairs has not sensibly improved since that date, and some astonishment has consequently been expressed at the meagre terms secured by the competitors, who appear to have been too much preoccupied by mutual rivairies. The new contract will come into force July 1, 1869, and will expire June 30, 1870.

The condition of the Belgian iron trade is considered to be improving, numerous and considerable orders for merchants' iron having

proving, numerous and considerable orders for merchants' iron having proving, numerous and considerable orders for merchants' iron having arrived at the works, while, as we have already reported, several important contracts for rails have been secured. Pig, which had been for some time neglected, now finds a tolerably regular outlet. Belgian refining pig has now obtained a steady market in Austria, a result which has been greatly promoted by a special tariff, concerted between the Belgian Government and various German railway companies. Thus, for a load of 10 tons, the following rates are now paid from Ohâtelineau: —To Norschau, 144. 85. 5d.; to Fraun, 184. 185. 2d.; to Radnitz, 144. 15s. 3d.; to Horowitz, 154. 3s. 2d.; to Braun, 184. 10s. 2d.; to Prague, 164. 1s. 3d.; at Vienna, 184. 8s. Smaller deliveries will not have the benefit of this reduced tariff. A recent attempted adjudication of rails for the Belgian State Railways does not appear to have proved successful, no tenders having been accepted; a new adjudication is announced for Feb. 3. This second adjudication is not expected to be attended with more satisfactory results, unless modifications are announced in the scale of charges. The price to be paid for the 6000 tons of rails agreed to be supplied by MM. de Doriodot to MM. Vitali, Picard, and Co., for the Victor Emmanuel Railway, is 64. 10s. 5d. per ton, delivered at Antwerp, without guarantee, and without accessories. The Courcelies-Nord Collieries Company is paying a dividend of 14. per share for 1888.

st. 10s. 5d. per ton, delivered at Antwerp, without guarantee, and without accessories. The Courcelles-Nord Collieries Company is paying a dividend of 1L per share for 1868.

A little feebleness has been observed on the French copper markets, and at the last dates the market had not fully regained a firm tone. The sale is mentioned of 100 tons of copper, to be delivered at the end of January, at 76L per ton, Paris conditions; and of 25 tons, to be delivered February 15, at the same price, but subsequently prices could not be carried beyond 75L per ton. At Paris the market has been weak, but at the last dates it had somewhat rallied, although the amount of business transacted was still comparatively limited. At Marseilles there has been no great change in quotations; Toka has made 72L, Spanish 74L, Chillian and refined Peruvian 78L, rolled red copper for sheathing 84L, and yellow ditto 80L per ton. The German markets have remained without any material variation. At Hamburg there have not been many transactions in copper of late. At Rotterdam, with a moderate current of affairs, Russian has been quoted at 51 fis., and Dronthelm 50 fis. to 52 fis. The aspect of the Dutch tin markets has somewhat improved. Tin has continued an upward movement, and some important transactions have been concluded in Banca, as well at Rotterdam as at Amsterdam, at 66½ fis. to 67 fis., at this last price there was a slight check, the article remaining offered at 67 fis., but the officially announced rise of 4L in English tin has since revived business, and prices have been carried to 58 fis. For Billitton 56 fis. to 67 fis. has been paid for direct deliveries. A regular current of affairs, a sustained demand, and little or no variations in prices—such are the characteristics of the principal lead markets. At Havre a sale has been noted in the tone of some of the gine markets.

The arrangements between the Eastern of France and the Great Luxembourg Railways are considered very satisfactory. The Ancre observes:—

'In purchasing or taking

which are now being solicited by Belgian capitalists, in order to unite that group, which is rich in minerals, with the Belgian coal basins. An extraordinary meeting of forgemasters of the Champagne, which was held a few days since, was almost entirely occupied with an examination of these applications for concessions. The group of capitalists represented by the Belgian General Company for Promoting the National Industry asks to be permitted to carry out, at its own cost, and without any increase of the subvention voted already by the Corps Législaiff—first, an extension from Sedan to the north-north-west, uniting itself to the Belgian network, in order to bring direct into the Haute-Marne the coal and coke of Charlerol and Lidge; secondly, an extension running from the south-west of Lérouville to the line from Blesme to Gray to the contre of the metallurgical basin, and which, it is contended, would give attisfaction to the numerous works of the Saulx, and to important mines and quarries between the valleys of the Marne and the Ornain. The group represented by the Coal Basins of the Hainaut Railway Company solicits a concession of a line from Orleans to Châlons, and obliges itself, besides, to construct without any increase of subvention—first, an extension of that line from Châlons to the Belgian frontier, via Bethel and Signy-le-Pette; secondly, a line commencing at Troyes, passing via Piney, Brienne, and Sommevofre, and accommodating by branches, if not by the main line, the works of the Haute-Blaise (this line would also, if carried out, terminate at a point on the Blesme and Gray line); and also, if carried out, terminate at a point on the Blesme and Gray line); and thirdly, a line from Donjeux to Rimancourt, ascending the valley of the Rognon, in which there are numerous metallurgical works. A rise of 4s. per ton in iron has taken place in the Meurthe and the Moselle; this advance carries the price of first-class merchants' iron to 71.8s. per ton at Mez.

The Royal Portuguese Railway Company has just rep

The Royal Fortuguese Railway Company has justiceported progress for 1867-8. The company's enterprise seems thus far to have resulted in failure. We may note one or two points in connection with the concern. The first is that the fish-jointing of the section from Lisbon to Santarem is being pursued, and is now completed, with the exception of about six miles. The company possesses \$4 locomotives—seven passenger engines, 22 mixed engines, and 25 monds engines.

code engines.

Salt has been found at a depth of 472 feet, near Segeberg, in Holtein. The discovery is the more valuable, as the proximity of the North Sea
n the one side, and the Baltic on the other, will afford a cheap and easy means

IMPROVEMENTS IN FURNACES.—An important improvement in step-grates for furnaces has recently been patented by Mr. J. Head, of Middlesborough. Each bar is supported upon two or more shanks, or levers, which can be projected downwards at right angles to the bar. These levers, or shanks, if of wrought-iron, should be swaged down somewhat smaller at the upper end, and inserted into holes, cast or otherwise, made in the bar, which should be of cast-iron. They can be further secured by wedging or riveting, if desired, or they may be cast upon the bar, as hereafter described. A few inches below the bar a hole is made in the shank, through which a boit or pin is inserted, attaching it to the frame, and which carries the weight of the bar, leaving it free to turn upon the pin or boit in an are of a circle. A few inches below this hole in the shank another hole is provided, containing another boit, which attaches the extremity of a shank to a long flat bar, connecting the extremities of all the shanks. The bars are cast with shanks and projecting pins, or centres. The upper pins rest in notches in the frame for easy removal, and the connecting bars hook on to the lower pins. The bars are supported upon a carriage, or light rails near the floor of the sah-pit. The wheels are placed so that when the grate is at its proper inclination they are nearly in the line of its centre of gravity.

ANGLO-COLONIAL.—The February number of this magestine (number)

Anglo-Colonial.—The February number of this magazine (pub-shed by Messrs. Sampson, Low, and Co., Fleet-street) is fully equal in style and variety of contents to the first. There is matter to interest all clases directly of indirectly interested in the colonies. "Concerning Western Australia" is well worthy of perusal. In it it is remarked that the mining resources of the colony suffer from the scantiness of labour and capital. Thus, several copper and lead mines have been opened, and found to yield a rich supply of ore, but these mostly ite unused for lack of hands; and, though coal is believed to exist, and has, indeed, been discovered in parts, as on the Irwin River, no attempt has yet been made to bring it to the surface. "Concerning Western Australia" is well

STREET TRAMWAYS FOR LONDON.—The Metropolitan Street Tram-STREET HEARWAYS FULLUNDON.—The Metropolitan Street Tramway Bill came before Mr. Palgrave, one of the examiners of standing orders, on Tuesday, who, after the necessary proof had been given, decided that the standing orders had been compiled with. The Pinlico, Peckham, and Greenwich Street Tramway Bill has also passed standing orders, and was, on Monday last, considered at a special meeting of the Greenwich District Board of Works, who, after hearing explanations from the engineer of the company, and examining the models of the rail proposed to be laid, approved of the bill, and instructed their clerk and engineer to agree to clauses with the company, and petition in favour of the bill.

Vice-Chancellor Malins has appointed Mr. W. J. White, of King-street, interim official liquidator (in conjunction with Mr. C. Greenwood) of the Hercules Fire, Life, and Marine Insurance Company (Limited). Vice-Chancellor James has appointed Mr. James Hole, of Gresham street, to be official liquidator of the Jamaica Commercial Agency Company.

THE RESOURCES OF COLORADO-No. IX. TO THE EDITOR OF THE MINING JOURNAL.

THE RESOURCES OF COLORADO—NO. IX.

TO THE RIPTOR OF THE MINING JOURNAL.

SIR.—The immense beds of coal existing throughout the territory of Colorado are well worthy of attention in examining the capabilities and resources of this new land. Situated, as they are, so far from any other workable coal fields, and surrounded by a vast extent of country comparatively destitute of fuel, it shows the bountful provision of the hand of Providence in placing these things where most needs, to assist in the development of the country. The liquid forms to 11 ft. thick. The Union Meeting of the country of the liquid forms to 11 ft. thick. The Union Meeting of the country of the liquid forms to 11 ft. thick. The Union Meeting of the liquid forms to 11 ft. thick. The Union Meeting of the liquid forms to 11 ft. thick. The Union Meeting of the liquid forms to 11 ft. thick in the Union Meeting of the liquid forms to 11 ft. thick in the Union Meeting of the liquid forms to 11 ft. thick in the Union Meeting of the liquid for the strata is fround exposed a wonderful section of best of liquid form to 16 ft. thickness, 11 in number, making at least 26 ft. of soil dignite. An analysis of the liquid forms of the liquid forms the liquid forms of the liquid for the strata is fround exposed a wonderful section of best of liquid for forms to 15 ft. in thickness, 11 in number, making at least 26 ft. of soil dignite. An analysis of the liquid forms of the

SOCIETY OF ENGINEERS.—On Monday, a paper will be read on "Explosive Compounds for Engineering Purposes," by Mr. Perry F. Nursey.

ANTIMONY ORE.

THE SUBSCRIBER expects shortly at LONDON a PARCEL of the above, and also a FIRST CONSIGNMENT of YELLOW OXIDE of ANTIMONY. Samples on application. JAMES THOMSON, 27, King-street, Kilmarnock.

F. N. GISBORNE'S PATENT MECHANICAL BALANCE-WEIGHT SIGNALS FOR MINES, &c.

THESE SIGNALS supply a want long felt in giving INSTANT COMMUNICATION in MINES at SEVERAL PLACES at the SAME TIME without the aid of electricity, but by a single rod or chain; so that a degree of safety is ensured hitherto unknown.

The price is also very low, and the mechanics so simple that any ordinary mechanic could put it in order if out of adjustment.

The same patent, as applied to ships, has received the approval of the Chief Engineer, Chatham Dockyard (vide Times, Aug. 13, 1868).

SOLE AGENT FOR MINERS:

MR. GEORGE B. JERRAM, ENGINEER, WASHINGTON BUILDINGS, BRUNSWICK STREET, LIVERPOOL.

N.B.—Mr. JERRAM is now visiting the different mines with working models.

N.B.—Mr. JERRAM is now visiting the different mines with working models

SMITH AND FORREST, ROSIN DISTILLERS, GREASE AND VARNISH MANUFACTURERS, HOLT TOWN OIL WORKS, MANCHESTER,

MANUFACTURERS OF VEGETABLE OILS, &c. ANTI-FRICTION GREASE, 10s. to 14s. per cwt, Wire rope ditto, free from acid, 15s. per cwt. Liquid ditto (between thick and thin), for trams, &c., 8s. to 12s. per cwt.

SKIP, HUTCH, CORVE, and WAGON OILS, from 8s. to 12s. per cwt.

TORCH OIL, 1s. to 1s. 6d. per gallon.

COPPER-SPOUTED QUART LAMPS, 4s.; TORCH WICK for ditto, 6d. per lb PATENT ANTI-CORROSIVE BLACK VARNISH, 4 Paint Substitute for Wood or Iron," ready for use, 1s. to 2s. 6d. per gallon We shall be glad to furnish a detailed price-list on application.

Orders by post receive prompt attention.

ENGINES AND BOILERS FOR SALE.

ENGINES AND BOILERS FOR SALE.

MESSES. NICHOLLS, MATHEWS, AND CO. have FOR SALE
ENGINES OF VARIOUS SORTS and SIZES, AND SEVERAL GOOD
TEN TON BOILERS. All are in excellent condition, and well worthy the attehtion of purchasers. Also, a WATER WHEEL, 85 ft. diameter, 3 ft. 2 in.
breast, with iron axie, complete; and one 12-head STAMPS, axie, stands,
frames, 12 heads of stamps, iron lifters, and two driving-wheels, complete.
Full particulars may be obtained by applying to Messrs. Nicholls, Mathews
and Co., Tavistock Foundry, Tavistock.

In the Court of the Vice-Warden of the Stannaries.

PURSUANT to an Order or Decree made in a Cause of Bayly v.
Titherley the Younger, the creditors in respect of EAST BROOKWOOD
MINE, in the parish of HOLNE, within the said Stannaries, are, on Thursday,
the 4th day of February next, at Eleven o'clock in the forencon, to COME IN
and PROVE THEIR DEBTS before the Registrar of the said Court, at his
office in Truro, or, in default thereof, they will be PEREMPTORILY EXCLUDED the BENEFIT of the said Decree.

F. HEARLE COCK, Truro
(Agent for Samuel Cater, Plaintiff's Solicitor, Plymouth).
Dated Registrar's Office, Truro, 23d January, 1869.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Devon.

BAYLY V. TITHERLEY THE YOUNGER.

IN RE EAST BROOKWOOD MINE.

TO BE SOLD, pursuant to an Order made in the above Cause, and dated the 9th day of December last, BY PUBLIC AUCTION, at EAST BROOK WOOD MINE, in the parish of Holne, within the said Stanuaries, or Tuesday, the 9th day of February next, at Eleven o'clock in the forenoon, either together or in lots, the undermentioned

MINING MACHINERY, MATERIALS, AND EFFECTS-viz.

MINING MACHINERY, MATERIALS, AND EFFECTS—viz.:

40 feet WATER WHEEL, 4ft. breast, with iron axie, ring, and cog wheel attached, two bobs connected with wheel; 15 feet WATER WHEEL, 3ft. 6 in. breast, with iron axie and socket attached; balance bob; shaft bob; 16 f2 in. pumps, 3 7 in. ditto, 2 12 in. door pleess and doors, 7 in. ditto, 13 in. windbore and door plees, 2 12 in. windbores, 9 in. working barrel, crab winch, capstan and about 40 fms. of rope, shears with pulleys about 50 ft. high, whim and chains, about 50 fms. of tramway, 2 litts of pumps and rods in shaft, 100 fms. of 2 in. cds, pulleys and stands, 18 fms. of launders, and a variety of other materials and effects in general use in mines, full particulars whereof appear in hand bills. Further information may be obtained on application to the person in charge at the mine, or to

(Agent for Samuel Cater, Plaintiff's Solicitor, Plymouth).

Dated Registrar's Office, Truro, 25th January, 1869.

In the Court of the Vice-Warden of the Stannaries.

IN RE PENDEEN CONSOLS MINE.

TO BE SOLD, pursuant to an Order made in a Cause of the Registrar's Office, at Truro, on Wednesday, the 10th day of February next, at Twelve o'clock at noon, the

at Twelve o'clock at noon, the

10 (3810th) PARTS or SHARES of the defendant, Elizabeth Brewerton; the
10 (3810th) PARTS or SHARES of the defendant, Daniel Broughton; the
8 (3810th) PARTS or SHARES of the defendant, William Birdsey; the
5 (3810th) PARTS or SHARES of the defendant, Cella Dunn; the
16 (3810th) PARTS or SHARES of the defendant, William Gillius; the
20 (3810th) PARTS or SHARES of the defendant, Albert Gough; the
20 (3810th) PARTS or SHARES of the defendant, George Hutt; the
5 (3810th) PARTS or SHARES of the defendant, Hervit; the
Hewitt; the 5 (3810th) PARTS or SHARES of the defendant, George Augustus Brauston
40 (3810th) PARTS or SHARES of the defendant, William Hall; the
38 (3810th) PARTS or SHARES of the defendant, Henry Jacobs; the
100 (3810th) PARTS or SHARES of the defendant, John Lee; the
20 (3810th) PARTS or SHARES of the defendant, John Norris, Jun.; the
20 (3810th) PARTS or SHARES of the defendant, John A. Parker; the
5 (3810th) PARTS or SHARES of the defendant, Esther Solomons; the
2 (3810th) PARTS or SHARES of the defendant, Esther Solomons; the
10 (3810th) PARTS or SHARES of the defendant, Clement Augustus Scott; the
11 (3810th) PARTS or SHARES of the defendant, Junes Smith; the
5 (3810th) PARTS or SHARES of the defendant, Matthew Robt. Wilkins; the
5 (3810th) PARTS or SHARES of the defendant, John White Welch; the
25 (3810th) PARTS or SHARES of the defendant, George Wadham; and the
5 (3810th) PARTS or SHARES of the defendant, Capt. John Teague;
Of and in the said MINE.

HODGE, HOCKIN, AND MARRACK, Truro
(Plaintiff's Solicitors).

In the Court of the Vice-Warden of the Stannaries,

IN the MATTER of the COMPANIES ACT, 1862, and of the WHEAL LOVELL MINING COMPANIES ACT, 1862, and of the WHEAL LOVELL MINING COMPANY.—By the direction of His Honou the Vice-Warden, notice is hereby given that on the 5th day of February next, at Eleven o'clock in the forencon, at the Registrar's Office, at Turo. In the county of Cornwall, this Court will PROCEED to MAKE a CALL of THREE POUNDS FIVE SHILLINGS PER SHARE on all the contributories of the said company who are settled in Class A on the List of Contributories of the said company. All persons interested therein are entitled to attend at the time and place to offer objections to such call. WILLIAM MICHELL, Registrar. Dated Registrar's Office, Truro, 20th January, 1869.

GRESLEY WOOD AND SWADLINCOTE COLLIERY COMPANY (LIMITED).

GRESLEY WOOD AND SWADLINCOTE COLLIERY COMPANY (LIMITED).

MESSRS. FULLER, HORSEY, SON, AND CO. are instructed by the Official Liquidator to SELL, BY AUCTION, on Thursday, the 4th of February, 1869, at Twelve o'clock precisely, on the premises, GRESLEY WOOD COLLIERY, near BURTON, DERBYSHIRE, the ROLLING STOCK and LOOSE MATERIALS of the COLLIERY, including TWENTY-EIGHT 7 ton COAL WAGONS, ONE HUNDRED TRAM WAGONS, THIRTY TONS nearly new RAILS, 4 tons new bar iron, 4 tons chain, 5 tons useful castings, spare pumping gear, head stock pulley, 15 inch centre back geared lathe, smiths' tools, anvils, double purchase crab, pair of 20 ton wrought iron blocks, stock of timber, about 10,000 new bricks, miners' safety lamps, iron and hemp ropes, chair cutting machine, leather bands, three wrought iron safes, and numerous other effects.

May be viewed the day preceding the sale, and catalogues had of H. CHATTERIS, Esq., Official Liquidator, Gresham-buildings, Basinghali-street; of Mossirs, ASHURST, MORRIS, and Co., Solicitors, 6, Old Jewry, E.C.; at the principal hotels in Derby, Burton, and Leleceter; on the premises; and of Messrs. FULLER, HORSEY, SON, and Co., 11, Billiter-square, London, E.C.

PRELIMINARY ADVERTISEMENT.

PRELIMINARY ADVERTISEMENT VALUABLE LEASEHOLD COLLIERIES, ABERDARE, GLAMORGANSHIRE.

MESSRS. FULLER, HORSEY, SON, AND CO. are instructed to SELL, BY AUCTION, at the Mart, London, early in March, the valuable LEASEHOLD COLLIERIES and other MINERAL PROPERTIES of the

LYA to SELL, BY AUCTION, at the Mart, London, early in March, the valuable LEASEHOLD COLLIERIES and other MINERAL PROPERTIES of the ABERDARE MERTHYR STEAM COAL COMPANY (LIMITED),

Comprising numerous SEAMS or VEINS of COAL of the thickness, in the aggregate, of 32 feet 7 inches, together with IRONSTONE and FIRE-CLAY, extending under a tract of land of about 624 acres in extent, situate in the parish of Aberdare, immediately contiguous to the town, and having railway communication with the shipping ports of Cardiff, Newport, and Swanses.

The coal is the well-known steam coal of the Aberdare district, including the Upper Four-feet Seam, and has been on the Government List, and is also largely used by the Messageries Imperiales of France.

The coilieries have been opened under careful supervision of eminent practical men, and the whole of the plant and appliances are of the best order. The mine rais are won by levels, one of which cuts most of the seams of coal, the otherworks the Driver Vein and Upper Four-feet; the roofs are good, the workings free from gas, and naturally drained. The present output is about 300 tons daily, but it has been as large as 500 tons daily, when the demand existed.

More detailed advertisements, with plans, sections of the minerals, and descriptive particulars, will shortly appear, and information in the meantime may be had of Messrs. MINET and SMITH, Solicitors, 3, New Broad-street, London, E.C.; and of Messrs. Huller, Horsey, Son, and Co., 11, Billiter-square, London, E.C.; and of Messrs. MINET and SMITH, Solicitors, 3, New Broad-street, London, E.C.

IMPORTANT MINING PROPERTY, WITH BUILDING AND MACHINERY IN IRELAND.

THE CARYSFORT MINING COMPANY (LIMITED), IN LIQUIDATION. MESSRS. EDWIN FOX AND BOUSFIELD WILL SELL, BY AUCTION, at the Mart, Tokenhouse-yard, Bank of England, on Wednesday, March 3, at One o'clock precisely.

THE CARYSFORT COPPER, SULPHUR, IRON, LEAD, AND SILVER-LEAD ORE MINES,

AND SILVER-LEAD ORE MINES,

Situate in the county of WICKLOW, in IRELAND, near the towns of Arklow, Ovoca, and Newbridge, with the Dublin, Wicklow, and Wexford and Shillelagh Branch Railways passing through the lauds; together with the agents' houses and workshops, pitman's house, lead house, powder house, stabling, &c., capital MACHINERY, including WATER WHEEL, 25 fc., 4 fc. breast pumps, drawing gear, ore crusher, dressing floors, sluice pit, small water wheel, steam engine and engine house, shaft timbering, and the entire Piant necessary for continuing the working of the mines—all in good repair.

The sett (which is held under lease, dated 6th February, 1858, from the Earl of Carysfort, for a term of 31 years from 29th September then last, at a royalty rent of 1-18th) comprises about 16,500 acres, and extends from east to west about 3½ miles, and is bounded on the north by the Aughrim River, on the south by the Arklow coast, on the east by the Arklow River, and on the west by the border line of the county of Werford.

The following shafts have been sunk in these mines:—Ballintemple Lead Mine, 25 fathoms; Moneytegue, 25 fathoms; Ballycogue (two shafts), 8 and 24 fms; 25 fathoms; Moneytegue, 25 fathoms; Ballycogue (two shafts), 8 and 24 fms; 25 fathoms; Moneytegue, 25 fathoms; Ballycogue (two shafts), 8 and 24 fms; 25 fathoms; Moneytegue, 25 fathoms; Ballycogue (two shafts), 8 and 24 fms; 25 fathoms; Moneytegue, 25 fathoms; Ballycogue (two shafts), 8 and 24 fms; 27 fathoms; Moneytegue, 25 fathoms; Ballycogue (two shafts), 8 and 12 fathoms, and numerous

Smaller trials.

From these the following ores have been raised:—Gold-bearing quartz, silver, fead, copper, sulphur, and iron; also, amber and china-clay, and slates, and upwards of 270 tons of lead ore; and a large quantity of the gold and other ores have been sold by the company. The buildings are in good repair, and the machinery in working order. The buyer can proceed at once with the working, which is at present carried on by the liquidators.

Printed particulars, now ready, may be had of Messrs. D. and F. FITZGERALD, solicitors for the liquidators, 20, 8t. Andrew-street, Dublin; WILLIAM G. CRAIG, Esq., liquidator, Trinity Chambers, Dublin; Messrs. ROGERSON and FORD, 40, Chancery-lane, London; or to Messrs. Ebwir FOX and BUSFIELD, 24, Gresham-street, Bank, E.C., corner of Coleman-street, London.

EAST PANT DU AND COLOMENDY MINES, MOLD.

SALE OF STEAM ENGINE AND BOILER, MINING MATERIALS, ETC. MR. THOMAS DEAN has been favoured with instructions from the Official Liquidator to SELL, BY AUCTION, on Friday, the 5th of February next, at Twelve o'clock at noon, on the Colomendy portion of the Mine, about 2½ miles from Mold, on the Ruthin Road,

THE WHOLE OF THE PLANT AND MACHINERY,

THE WHOLE OF THE PLANT AND MACHINERY,

Consisting of ONE 18 in. cylinder ROTARY ENGINE, with pumping gear attached; wrought iron crank, 6 in. square, fly wheel, 12 ft. diameter; 2 cog wheels, and shaft for drawing gear, if required; 7 segments of fly wheel, shaft bob, balance bob, pedestals, brasses, and bearings; tubular BOILER, about 7 tons, with appendages, steam and feed pipes, 6 in. steam gauge, damper and chain; shear legs and 2 sheaves; 8 arm oak capstan, span boam, legs, and stays; capstan rope, 40 fns. 7 in. plunger and 6 in. wood rods, 15 fms. 6 in. drawing lift buckets and iron bucket rods in the shaft, 1 horse whim, 2 good iron kibbles, poppet heads and pulleys, 13 g. in. chain (about 140 yards long), 280 yards of bridge rails and wagon at bottom of level, 13 bars new iron, 13 new bucket joints, chests, 7 cast steed frills, 25 yards new 3 in. tackle rope, 10 yards chain, 9 new picks and steel point shovels, bar of drilled steel, tub, scale stand, fir poles (4 ft. 6 in.), iron pulley, boards, bricks, breaking plates, cistern, and anvil.

anvil.

One hundred and thirty-five yards of % in, chain and whim at East Pant Du.
The whole may be viewed any day prior to the sale, and further particulars
obtained from Mr. GEORGE HASWELL, 89, Foregate-street, Chester; from the
auctioneer, Mold; or from Messrs. LAGE, BANNER, GILL, NEWTON, and BUSHBY,
solicitors, Liverpool.

LEASEHOLD TIN PLATE AND IRON WORKS, CALLED

LLANELLY FORGE. M. R. SYDNEY TUDOR EVANS is instructed to OFFER FOR SALE, BY PRIVATE CONTRACT, with the approbation of His Honor the Vice-Chaucellor, Sir Richard Mailins, the LEASEHOLD TIN PLATE AND IRON WORKS known by the name of

THE LLANELLY FORGE,

THE LLANELLY FORGE,

Situate at LLANELLY, near ABERGAVENNY, standing on 44 acres of landor thereabouts, late the property of John Miles, deceased.

The WORKS comprise STEAM ENGINES, rolling mills, blast and puddling
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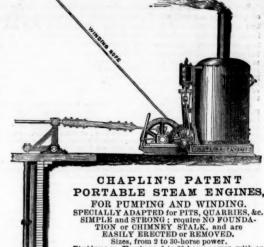
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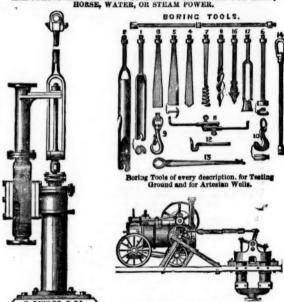


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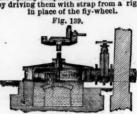
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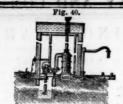


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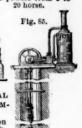
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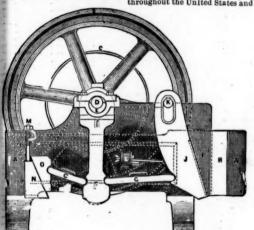
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His Honour the Vice-Chancellor Wood having found a VERDICT in FAVOUR of the PLAINTIFFS in the above Cause, establishing the VALIDITY of BLAKE'S PATENT, and made a DECREE for an INJUNCTION to RESTRAIN the DEFENDANTS, Messrs. Thomas Archer and Son, of Dunston Engine-Works, near Gateshead-on-Tyne, from INFRINGING such PATENT, and ordering them to pay to the Plaintiffs the costs of the Suit.

ALL PERSONS are hereby CAUTIONED against MANUFACTURING, SELLING, or USING any STONE BREAKERS similar to BLAKE'S, which have not been manufactured by the Plaintiffs. Application will forthwith be made to the Court of Chancery for INJUNCTIONS AGAINST ALL PERSONS who may be found INFRINGING BLAKE'S PATENT after this notice.

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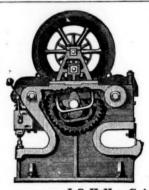
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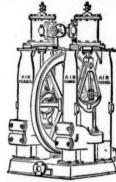
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THE MINING SHARE LIST.

BRITISH DIVIDEND MINES.

	1	FOREIG	N	DIVI	DENI	D M	NE	s.	
20000 At 15000 Ca 20000 Ca	lamillos, I, Spain* ustralian,c, South ape Copper Mining entral American A	Australia†‡ ssociation*†	7		134		::	0 46 0 2 0 16 0 0 3 17 6 0 15	6Aug. 1868 0Nov. 1868
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NON DIVIDEND FOREIGN MINES

NON-DIVIDEND FOREIGN MINES.	
Thares. Mines. Paid. Last Pr. Bus 50000 Anglo-Argentine, s, Argentine Republic* 1 0 0	done. Last Call.
00000 Anglo-Brazilian, g*† 0 10 0 %	% Nov. 1866
12500 Anglo-Italian, g*† 0 10 0 %	Jan. 1868
20000 Australian United, g 1 0 0	Mar. 1868
2464 Burra Burra, c, South Australia 5 0 0	***************************************
20000 Capula, s, Mexico*† 1 17 6	May 1868
	11/8 Mar. 1868
12000 Cobre Copper Company, c, Cuba†‡* 45 10 0	Jan. 1868
10000 Copiapo Mining Company, Chilit 16 10 0	
10000 Copiapo Smelting, Chili* 10 0 0	April 1866
300 Copper Miners' Co. of South Australia* [150 £100 pd., 150 £70 pd.]	Nov. 1866
15000 El Chico Silver Mining and Reduction Company* 5 0 0	Nov. 1866
40000 Fortune Copper Mining Co. of Western Australia 2 0 0	Fully pd.
	10s May 1868
50000 General Brazilian* 0 209s.	118
80000 Great Northern, c, South Australiat 1 11 6	Sept. 1862
50000 Javali, g, Nicaragua 2 0 0	Jan. 1869
7927 Lusitaniań (Portugal) 1 2 15 0	Dec. 1866
83640 Mariquita, g, s, New Granada 1 0 0	Feb. 1868
12500 Nerbudda Coal and Iron, India *	Dec. 1867
51000 New Quebrada, c. Venezuela*† 4 4 0	
15000 Otea, c. New Zealand*	Fully pd.
80000 Pestarena United, g, Italy 1 2 17 6 13614	11/4
10178 Rhenish Consolidated, I [6000 £5 pd., 4178 £2 10s. pd.]	May 1866
00000 Rossa Grande, g. Brazil*† 0 14 0 15a	June 1867
15000 San Pedro del Monte, s, Mexico 4 0 0	Sept. 1866
10000 San Roque, l, Spain 5 0 0	Fully pd.
	1% Oct. 1868
	. 15sOct. 1868
43174 United Mexican, s, Mexicot; *	May 1868
30000 Val Antigoria, g, Italy* 1 26	**.
6000 Val Sassam, s, c, l, Italy* 8 00	Aug. 1868
45000 Victor Emanuel, c, Italy	Fully pd.
20000 Washoe, g, Nevadat 5 0 0	Fully pd.
80000 Worthing, c, South Australia*t 1 0 0 38	Fully pd.
75000 Yorke Peninsula, South Australia 1 00 %	Fully pd.
5000 Yudanamutana, c, South Australia *12 3 0 0 21/4 2	21/8 Fully pd.

NON-DIVIDEND MINES.

NON-DIVIDEND I			
Shares. Mines.		Last Pr. Bus. do	ne. Last Call.
12000 Brynpostig, Montgomery, ?*	. 1 00.		
1000 Carn Brea, c, t, Illogan;	30 0 0 .		June 1868
3000 Chiverton, I, Perranzabuloe		. 31/21% 21/8	Nov. 1868
8000 Chiverton Moor, I, Perranzabuloe		. 51/2	Nov. 1868
2880 Clifford Amalgamated, c, Gwennapt			Oct. 1868
12800 Drake Walls, t, Calstock!			sJan. 1868
512 East Basset, c, Redruth†1			
6000 East Carn Brea, c, Redruth;			Dec. 1868
6000 East Grenville, c, Camborne		35% 314 316	Nov. 1868
			Oct. 1868
4000 East Wheal Russell, c, Tavistock†		8/ 1 11/4	Dec. 1868
6144 Gonamena, c, St. Cleer			Feb. 1867
		21/2	Oct. 1868
4800 Great Retallack, s-l, b, Perranzabuloe			Dec. 1868
5143 Great South Tolgus, c, Redruth			Mar. 1868
1798 Great Wheal Fortune, t, Breage		1/4	Dec. 1868
6000 Hingston Down, c, Calstockt			Jan. 1869
400 New Wheal Seton, c, Camborne			Jan. 1868
3457 North Downs, c, Redruth			Nov. 1868
695 North Roskear, c, Camborne			Dec. 1860
5936 North Treskerby, c, St. Agnes			Nov. 1868
3000 North wheat Chiverton, t, Perranzabuloe			Aug. 1868
1024 Rose and Chiverton United, l, Newlyn		. 1/8 3/4 1/8	Oct. 1868
		1 1 1	
1000 South Merllyn, I, Flint			Nov. 1867
940 St. Ives Consols, t, St. Ivest			April 1868
920 Stray Park, c, t, Cambornet			May 1868
1000 West Basset, c, Illogantt			Nov. 1868
1024 West Caradon, c, St. Cleert:			Jan. 1869
12800 West Drake Walls, c, Calstock			June 1866
2582 West Great Work, t, Breage			Oct. 1868
6000 West St. Ives, t, c, St. Ives 512 West Wheal Frances, t, Illogan	106 15 0	4214 38 40	
513 West Wheat Francos, t, Hogan	3 4 0 .		Nov. 1868
5000 West Wheal Kitty, t, St. Agnes			Jan. 1869
6000 Wheal Agar, c, Illogan		0	Nov. 1868
512 Wheal Buller, c, Redruth t			Jan. 1868
811 Wheal Emily Henrietta, c, Illogan			Dec. 1868
5724 Wheal Grenville, c, Cambornet		6	Dec. 1867
1040 Wheal Trelawny, s-l, Liskeardt	10 10 .		Oct. 1868

NON-DIVIDEND MINES.

NON-DIVIDEND MINE Shares. Mines. Paid, Last P	-
4000 Ballacorkish, I. of Man, I, c* 4 0 0	934
1248 Boscaswell, t, c, St. Just 7 6 0 5000 Bottle Hill, t, Plympton 1 14 6	78
5000 Bryn Gwlog, <i>l</i> , Flint	*
1000 Budnick Consols, c	1%
1000 Camborne Consols, c 11 10 0 — 11000 Cape Cornwall, t, c* [8000 £2 10s, pd., 3000	258. p
	:
6000 Carn Camborne, c, Cambrn. 2 10 6 — 2000 Carnmarth Granite Co.*	
3000 Chiverton Valley, <i>l</i> , Perranz. 2 0 0. — 2048 Colquite & Callington Un., <i>c</i> . 1 3 0. 2 256 Condurrow, <i>c</i> , <i>t</i> , Cambornet 76 10 0. — 50000 Connorree, <i>c</i> , <i>sut</i> , Wicklow*. 1 0 0. — 988 Copper Hill. <i>c</i> , Redruth 12 10 0. —	16:4
50000 Connorree, c, sul, Wicklow*. 1 0 0— 983 Copper Hill, c, Redruth; 12 10 0— 1000 Cornwall Hematite Co.*	:
1055 Craddock Moor, c, St. Cleer; 14 0 0 — 12000 Crelake, c, Tavistock 3 12 0 —	::
6000 Cuddra, t, St. Austell 5 10 0 — 300 Cwm Darren, Cardigan* — 40 740 Eaglebrook, l, Talybont* 19 15 0 —	:: 3
1000 East Basset and Grylls, t 3 5 0 — 4000 East Chiverton, l, Perranz 3 6 3 1	%
4000 E. Gunnislake & S. Bed. c 11 1 6 — 6000 East Laxey, l, Isle of Man 3 0 0 — 4096 E. New Wh. Lovell, t, Wend. 0 5 0 —	:: 3
3986 East Providence, t, Lelant — — 5000 E. Rosewarne, c, t, Gwinear 2 19 0 1	18
6000 East Snaefell, l, I. of Man* 3 0 0 — 5610 East Seton, c, Camborne 0 16 6 — 2000 East Trumpet, c, t 1 15 0 2	2
2000 East Trumpet, c, t	%::13
coop Con Min Co for Incland	::
10000 Glasgow Caradon, c* [30,000 £1 p., 10,000 11 10000 Glan Alun, l, Mold* 012 0.5700 Goglan Alun, l, Mold* 12 0.5700 Goglann, Cardigan, l. 12 10 0.600 Gothic, s-l, Cardigan* 2 10 0.600 Gothic, s-l, Cardigan* 10 0.6000 Gract Cwmsymlog, s-l* 15 0.60000 Gract Cwmsymlog, s-l* 15 0.60000 Gract Cymsymlog, s-l* 15 0.600000 Gract Cymsymlog, s-l* 15 0.600000 Gract Cymsymlog, s-l* 15 0.6000000 Gract Cymsymlog, s-l* 15 0.60000000 Gract Cymsymlog, s-l* 15 0.600000000000000000000000000000000000	8. p.]
6000 Gothic, s-l, Cardigán* 2 10 0— 486 Grambler & St. Aubyn, c†t 74 0 0— 10000 Great Cwmsymlog, s-l* 1 15 0—	::
10000 Great Cwmsymlog, 8-l* 1 15 0 — 2866 Great Caradon, c, St. Ive 4 5 9 1 2500 Gt.No.Laxey(Isle of Man)* 1 0 0 1	4 %
2500 Grat O.Laxey(isle of Man)*. 1 0 0 . 1 2 6000 Great N. Tolgus, c, Illogan. 1 0 0	1%
6000 Great Western, t 2 0 0. 29 3813 Gt. Wh. Baddern, t, Devoran 7 17 6. —	62%
3813 Gt. Wh. Baddern, t, Devoran 7 17 6. 2 119 Great Work, t, Germoe100 0 0. — 10240 Gunnislake (Clitters'), t, c. 4 19 0. — 6668 Gwydyr Park, t, Llanrwst. 1 11 0. — 6400 Harwood, t, Durham* 0 7 6	: 1
	:
	4 3
5120 Lovelt Composs, Wendron, f. 0 6 0. — 6000 Manddin, c, Lostwithiel 4 7 0. 3! 6000 Mid-Wales, l,* 2 10 0. — 1000 Montgomeryshire, l, b* 3 0 0. — 640 Mount Pleasant, l, Mold 4 0 0. — 624 Nanglies, t, c Kes	::
1024 Nanglies, t, c, Kea 32 12 0 11 1500 New Chiverton, l, Perranz 1 4 6	9
1500 New Chiverton, I, Perranz 1 4 6. — 6000 New Clifford, c., Gwennap*. 3 0 0 . — 6400 N. Crow Hill, I, St. Stephen. 3 6 6. — 6514 New E. Russell, c, Tavistock 0 12 6. — 6000 New Gt. Cons., c, Tavistock 1 0 0 . —	::
0000 New Gt. Cons., c, Tavistock* 1 0 0 — 6400 New Pembroke, St. Blaz. t, c 1 12 0 —	::
9000 New Gt. Cons., c, Taylstock* 1 0 0. — 6400 New Pembroke, St. Blaz. t, c 1 12 0. — 8880 New Treleigh, c, Redruth — — — — 6000 New Westminster, t — — — — — 6000 New Wh. Loveil, t, Wendron 1 19 6 27 9000 N. Wh. Towan, c, t, Wendron 1 10 0. — 9000 No. Dolcoath, c, Camborne. 4 3 0. — 1361 No. Grambler, c, Redruth — 9 3 9. — 6000 North Jane, t, s-i, Kenwyn. 3 6 0. — 9000 North Levant, t, c, St. Jast. 10 12 0. 11 4000 No. Pheenix, c, Linkinhorne 4 11 0. — 2340 North Pool, c, Iliogan. 6 3 6. —	631/4
2000 N. Wh. Towan, c, t, Wendron 1 10 0 — 5000 No. Dolcoath, c, Camborne 4 3 0 — 1361 No. Grambler, c, Redruth 9 3 9 —	::
6000 North Jane, t, s-l, Kenwyn 3 6 0— 2000 North Levant, t, c, St. Just 10 12 0 11	
4000 No. Phœnix, c, Linkinhorne 4 11 0 — 3240 North Pool, c, Illogan 6 3 6 — 1024 No.Retallack, c, Perrazabuloe 2 0 0 —	::
6000 North Wheal Basset, c, tt 5 0 0— 5610 N. Wh. Crofty, c, Illogant 3 11 3 11 2288 Okel Tor, c, Calstock 2 7 4—	234,
8000 Old Gunnislake.c. Calstock 3 9 6	:
5754 Pedn-an-drea, t, Redruth 7 18 0 — 5000 Pendeen Consols, c, St. Just 7 11 0 — 4000 Penhale United, s-i, Perran.* 2 15 0 —	::
1000 Penhale United, s.l., Perran. 2 15 0 — 2177 Penhale Wh.Vor, t, c, Breage 6 12 6 — 1772 Polberro, t, St. Agnes 15 0 0 —	:
6400 Par Consols, c, St. Blazeyt; 2 14 6. — 754 Pednan-drea, f, Redruth . 7 18 0. — 5000 Pendeen Consols, c, St. Just 7 11 0. — 1000 Pendeen Consols, c, St. Just 7 11 0. — 2177 Penhale Wh. Vor, t, c, Breage . 2 15 0. — 2177 Penhale Wh. Vor, t, c, Breage . 15 0 0. — 2177 Penhale Wh. Vor, t, c, Breage . 15 0 0. — 2177 Penhale Wh. Vor, t, c, Breage . 15 0 0. — 2177 Penhale Wh. Vor, t, c, Breage . 15 0 0. — 2178 Redmoor, c, t, Callington . 1 19 6. — 21800 Reinnel Laxey, t, 1 of Many . 4 10 0. — 21800 Reinnel Laxey, t, 1 of Many . 4 10 0. — 21800 Rosellf and Tolcarne, t . 9 15 0. — 21900 Rosellf and Tolcarne, t . 9 15 0. — 21916 Rosewall Hill & Ransom, c. 3 10 0. 1 14 2100 Royalton, t, St. Columb . 1 1 0. — 2100 Royalton, t, St. Columb . 1 0 0. — 2100 Rosell Hill & Gwennap . 3 10 0 0. —	::
3000 Rhydtalog, s-4, Cardigan 0 5 0 — 5000 Roaring Water, c= 2 15 0 —	
2000 Rosecliff and Tolcarne, l* 9 15 0 — 5915 Rosewall Hill & Ransom, c 3 10 0 14 2000 Royalton, t, St. Columb 1 1 0 —	
0500 Snaefell, I, Isle of Man* 1 0 0— 512 South Basset, c, Gwennap 30 10 0— 3000 So. Chiverton, s. I, Perranz. 6 2 6—	:
3000 So. Fowey, c, Tywardreath 1 0 0— 3000 So. Gt. Work, t, c, St. Hilary 0 3 6—	
3395 So. Herodsfoot, I, Liskeard. 4 10 0. 11/2 1210 South of Scotland, c*t 1 0 0 — 1739 South Trevenna, c, 2 10 0 —	***
3000 South Wheal Grenville, t, c. 1 5 6 — 400 So. Wh. Seton, c, Camborne 83 13 0 — 236 Spearne Consols, t, St. Just. 4 4 4 —	:
242 Spearne Moor, t, St. Just 6 20 — 673 St. Ives Wh. Allen, t, St. Ives 18 18 7 —	
1771 St. Just Amalg., t,* [6000 £3 10s. pd.,2771 £ 300 Steeple Aston Iron Ore Co 7 0 0 — 1700 Stiperstones, t, Salop* 6 0 0 —	2 54. pt
1000 TamarValley, s-l, Beeralston 0 14 0— 1500 Tin Hill, t, St. Austell 1 12 0—	
548 Trelyon Consols, t, St. Ives 16 10 0 — 501 Tresavean and Trethurrup 16 11 0 — 1096 Trewetha, s-l, Menheniot 10 19 6 —	1
943 Treworlis, t, Wendron 11 15 4— 200 Vigra and Clogau, c, Dolg. *1., 5 10 0—	:: 1
256 West Damsel, c, Gwennap 38 10 0— 1000 W. Maria & Fortes., c, Lam 3 13 0— 1800 West Prince of Wales, c 0 11 0—	
000 West Rose Down, c, Linking. 22 10 0 — 512 West Tolgus, c, Redruth 62 0 0 30 096 W. Wh. Tremayne, St. Erth 0 12 0 —	1/1
741 Wheal Basset and Grylis, t 7 18 6 —	1
10	4
024 Wh. Kitty, t, Uny Lelantt 3 10 6 — 896 Wh. Margaret, t, Uny Le.1. 13 17 6 —	
728 Wheal Margery, St. Ives, t, c 27 4 0	
000 Wh. Emma, c, Buckfastleigh 3 19 0, 569 Wheal Falmouth & Sperries 9 1 0, 700 Wheal Ida, s-l, St. Ive 1 8 0, 4 024 Wh. Kitty, t, Uny Letant 3 10 t 586 Wh. Margaret, t, Uny Let.; 13 17 t 728 Wheal Margery, St. Ives, t, c 27 4 0, 000 Wheal Mary Florence, c* 2 6 0, 000 Wheal Rose, c, Scorrier 1 0 0, 000 Wheal Rose, c, Scorrier 1 0 0, 000 Wheal Trannack, c, Sithney 1 38 000 Wheal Trevenna, t, c* 1 38 000 Wheal Trevenna, t, c* 1 0 0, 000 Wheal Trevenna, t, c* 1 0 0, 000 Wheal Trevenna, t, c* 1 0 0,	9
200 Wheal Trevenna, t, c* 10 0 0 —	
IRON AND COAL COMPANIES	

	THOUSE THE COSTS			_		-
100	Bolckow, Vaughan, and Co.*	30	0	0		8
100	Charles Cammell and Co	80	.0	0		84
32	Ebbw Vale Iron Co.*	27	10	0	1	13}
15	Hopkins, Gilkes, and Co.*	10	0	0		51
100	John Brown and Co.*	70	0	0.		23
1216	Mersey Steel and Iron Co	11	10	0		8
10	Midland Iron Company*	5	0	0		7
100	Parkgate Iron Company*	57	10	0		31
50	Rhymney Iron Company	50	0	0		21
15	Ditto, New	15	0	0		57
80	Shotts Iron Company	60				
100	Thames Iron Company* 1	00	0	0		70
20	Patent Shaft & Axletree Co.*	10	0	0		47
100	Sheepbridge Coal & Iron Co.*	50	0	0		20
100	Staveley Coal and Iron Co.*.	60	0	0		27
35	Palmer's Shpbldg.&Iron Co.*	25	0	0		75
10	Consett Iron Company*	7	10	0		1

b, blende cl, coal; c, copper; g, gold; l, lead; s, allver; sl, slate; sl, allver-lead; t, tin; s, zinc.

a Companies marked thus * have been incorporated with Limited Liability; those marked † have been admitted on the Stock Exchange, those marked thus ‡ have paid Dividends.

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